Maritime Heritage Minnesota

Ann Merriman

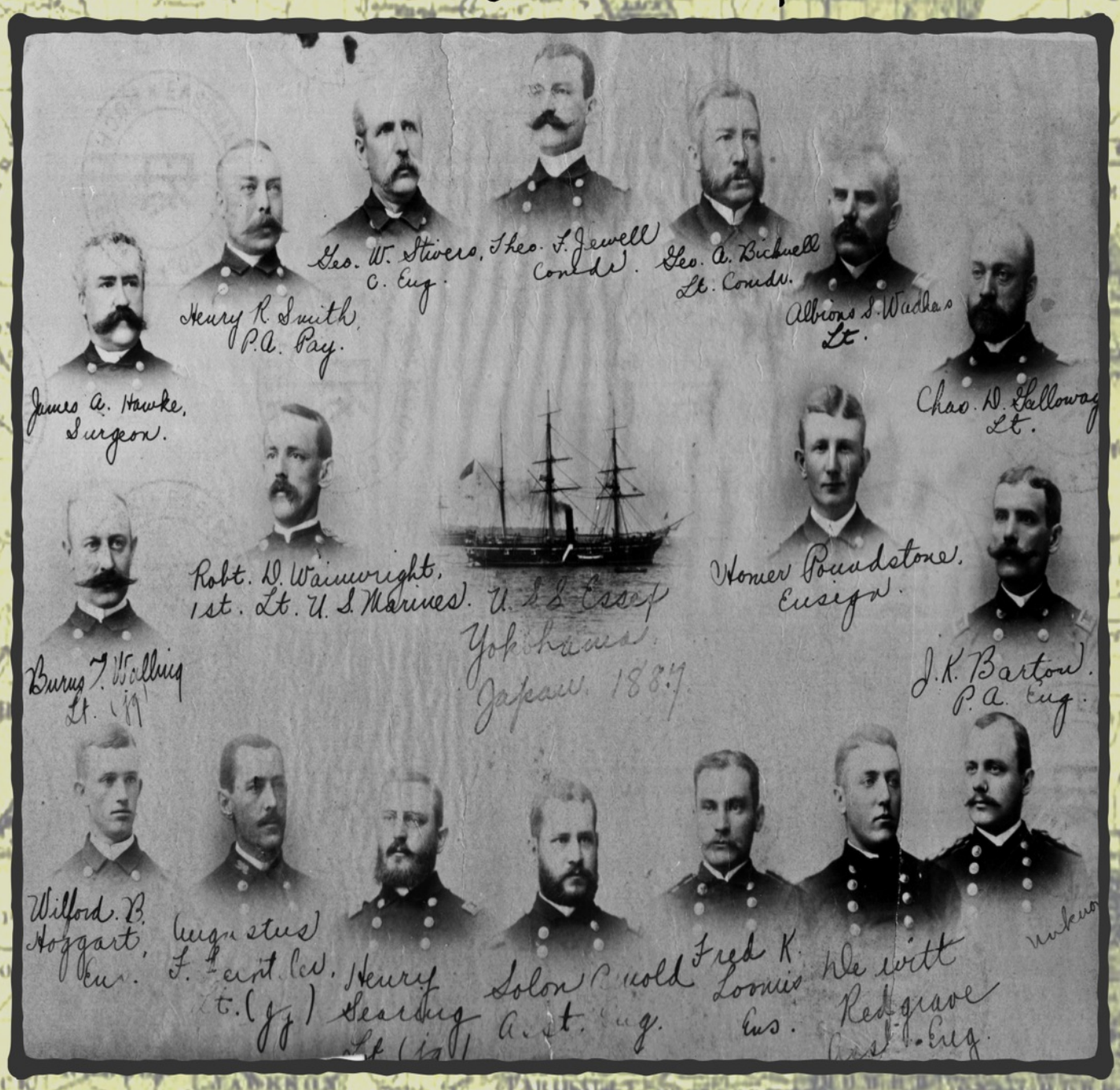
Christopher Olson

CLEAN WATER LAND & LEGACY AMENDMENT

Log Book 22 of the USS Essex

January 1, 1887 - June 30, 1887

The Day-to-Day Operations of Shipbuilder Donald McKay's Last Ship


Geo. W. Stivers. C. Eng.
Theo. F. Jewell Condr.
Geo. A. Bicknell Lt. Condr.
Albion S. Wadhams Lt.
Henry R. Smith P.A. Pay.
James A. Hawke, Surgeon.
Chas. D. Galloway Lt.
Robt. D. Wainwright, 1st. Lt. U.S. Marines.
U.S.S. Essex Yokohama Japan. 1887.
Homer Poundstone, Ensign.
J.K. Barton. P.A. Eng.
Wilford B. Hoggatt, Ens.
Fred K. Loomis Ens.
Solon A. Stivers Asst. Eng.
Henry Gearing Lt. (jg)

© 2018 Maritime Heritage Minnesota, Ann Merriman, Christopher Olson

Maritime Heritage Minnesota

USS *Essex* Log Book 22

Finding Aid

Adams class ship USS *Essex* (IX-10) was designed and constructed by premier North American shipwright Donald McKay. Her keel was laid down in 1874 and she was launched in 1876. She was a three-decked wooden screw steamer sloop-of-war with auxiliary sail (bark-rigged). She was 185 feet long, 35 feet in the beam, had a 14.25-foot draft, and was 1,375 tons. When commissioned, she carried six big guns, all muzzle loaders: one XI-inch and four IX-inch Dahlgren Naval Artillery guns, and one 60-pound Parrott Rifle The ship's armory carried dozens of small arms including rifles, pistols, revolvers, and cutlasses. Further, she carried a six auxiliary boats including a launch, two cutters, a whale boat, one gig, and a dinghy. The combinations of guns and watercraft carried on board USS *Essex* could change from log book to log book. She served with the US Navy in active duty and as a training ship with the Ohio Naval Militia, the Illinois Naval Militia, and the Minnesota Naval Militia. She was intentionally burned on Minnesota Point in Lake Superior at Duluth in 1931. Her Minnesota Archaeological Site Number is 21-SL-1030 and she is a National Register of Historic Places Property.

Maritime Heritage Minnesota digitized the 62 known USS *Essex* log books held at the National Archives in Washington, DC, and at the US Naval Academy in Annapolis in 2010. The log books consist of the daily activities on board the *Essex* as recorded by deck officers on duty. Those deck notes were then transcribed to be the official log of the *Essex* that were sent to the Navy Department in Washington, DC, where they were bound into their current book form. At the beginning of most log books, there are: a title page, two list of officers pages, a crew complement page (listing the crew by rank and job), an armaments page (list of the different large guns, boats, and small arms), and two pages of compass observations. Not all log books contain these pages and some include additional information, including a plan and section of the *Essex* in Log Books 8 and 9 and four pages of directions on how to fill out log pages in Log Book 21. Sometimes two transcribed versions of log pages were sent to the Navy Department and duplicate books were produced. However, sometimes the duplicate books were not bound with exactly the same pages, so some books overlap each other in date. Also, some log book pages have writing too close to its spine edge and after binding, some words and numbers were 'lost' in the spine if the binding remained tight over the decades. Further, it must be kept in mind that the names of ships, both American and foreign, as well as geographical locations usually expressed in different languages will have variations in spelling. With this in mind, the deck officers of the *Essex*, when writing the log pages, may misunderstand what the actual name of a ship or geographical marker actually is and their handwriting may present challenges or be nearly illegible. The digitization and editing of the USS *Essex* log books were made possible with funding provided by the Minnesota Historical and Cultural Heritage Grant

program, part of the Arts and Cultural Heritage Fund of the Clean Water, Land and Legacy Amendment.

Log Book 22 of the USS *Essex*: January 1, 1887-June 30, 1887

The National Archives houses USS *Essex* Log Book 22. Throughout Log Book 22, comments were made on:

- sail adjustments with sail type and action specified
- banking of boiler fires in order to put the ship on stand-by for immediate use
- coupling and uncoupling the propellor when the ship was shifting from steam to sail and *vice-versa*
- when under steam the different watches record the average steam boiler pressure and engine revolutions
- lowering of smokestack and proceeded under sail and *vice-versa* when the *Essex* was underway
- when anchored nearly every watch described the state of the anchor cables: crossed ('cross in hawse, stbd chain on top' or 'Elbow in hawse') and often will mention 'clearing the hawse' (the crossed anchor cables were uncrossed)
- casting deep sea lead for soundings
- patent log readings
- water distillation using the ship's boilers to produce freshwater and refilling the freshwater tanks
- coaling of the ship
- weather recording: temperature, wind speed and direction, barometer readings, state of the sea
- recording the ship's behavior (heavy rolling or pitching)
- testing of all electrical apparatus
- crew conducting ship maintenance: engine maintenance/repair, general ship cleaning, bilge cleaning and checking pumps, scraping and painting - and sometimes tarring and caulking - the ship's hull and infrastructure, tarring down rigging, airing of rigging, repairing stays, repairing yards and booms, loosed sails to dry, scraping and slushing spars, caulking the deck under the galley, scrubbing masts and yards, steam cutter maintenance/repair, steam/sail launch maintenance/ repair, repairing sounding apparatus, scraping out smokepipe, inspected cotton primers,
- crew conducting drills: target practice with the main battery (great guns), general quarters drills, torpedo drills, man overboard drills
- receiving fresh water from shore through pumps or lighter
- receiving provisions and stores: food, medical supplies, clothing, engineering gear, construction
- Quarterly Board of Survey's findings of condemned articles on board (food, equipment) and their fate (food was usually tossed overboard) from the inventories of the different ship's departments (Ordnance, Engineering, Navigation, Equipment, Medical, Pay)
- crew promotions

- crew quarters inspection
- liberty parties sent ashore
- crew members are discharged at their own request (DOR)
- lists of new crew members - recruits or transfers from other ships- taken on board during a cruise
- crew transfers to other ships
- crew members in solitary confinement or other punishments for various infractions, AWOL crew, general and summary court martial proceedings, AWOL crew put in irons
- rewards offered for the return of AWOL crewmen
- weekly Sunday services; after the services, once a month, the Articles for Better Government of the Navy were read to the crew

NOTE: The *Essex* deck officers who recorded the daily happenings on the ship often translated the names of non-American ships incorrectly. MHM determined the correct spellings of the ships and those corrections are reflected in the Finding Aid, not the poorly transliterated ship names.

At the beginning of Log Books 22, in January 1887, the USS *Essex* was anchored in Singapore Harbor under Commander Theodore Frelinghuysen Jewell. *Essex* was assigned to the US Asiatic Squadron. On January 1, the ship was making preparations for going to sea. She exchanged International Signals with the sloop HMS *Satellite* and stood up the Singapore Straits, where she passed a steamer and Horsburgh Lighthouse. For the next 10 days, *Essex* headed northeastward into the South China Sea, and passed through patches of what the crew called 'whales food' - probably plankton. The crew drilled at general quarters and conducted water depth soundings. *Essex* exchanged color salutes with a passing English bark, and on January 10, she passed two sailing vessels standing out of Manila Bay. The next day, she anchored in Manila Bay, exchanged color salutes with an anchored Russian man-of-war, and received a visit from the port's Health Officer. For the next few days, the crew was busy scraping and painting the ship's hull. *Essex's* officers exchanged courtesies with port dignitaries and ship officers including the US Consul, Aid of the Captain of the Port, Aid of the Spanish Admiral, and the Russian corvette *Vestnik*.

On January 14, *Essex* prepared for sea and while raising the anchor, found one capstan roller broken from unknown causes. She steamed out of Manila Bay, sailing and steaming along the Luzon coast through the South China Sea for three days. The fore topsail yard broke and the yard was sent down for repairs; a crewman was slightly injured by a falling block. The fore topsail yard was repaired and was sent back up the mast on January 17; *Essex* continued on toward Hong Kong. She intercepted a small fishing boat, stopping her engine, then resumed course. The crew set the ship's clock (chronometer) back 13 minutes to adjust to 'local time', and passed a number of Chinese junks. *Essex* anchored in Victoria Bay in Hong Kong Harbor. Over the next six days, *Essex* exchanged courtesies with the Governor of Hong Kong and his Aid de Camp, the American Consul, and British Vice Admiral Richard Vesey Hamilton, Commander-in-Chief of the China Station. Officers from the ships in the harbor

exchanged visits and pleasantries with Commander Jewell including English ironclad Flagship HMS *Audacious*, cruiser HMS *Leander*, survey vessel HMS *Rambler,* corvette HMS *Sapphire*, French cruiser *Primauguet*, gunboat HMS *Alacrity*, French gunboat *Chasseur,* English gunboat HMS *Espoir*, and HMS gunboat *Linnet*. The ship's fore topsail yard was condemned by Survey Board, ship's provisions - primarily medical supplies - were brought on board and stowed. An *Essex* ensign was transferred to gunboat USS *Monocacy*, and eight Asian crewmen enlisted as landsmen on the ship.

On January 23, *Essex* up-anchored and left Hong Kong, passing a steamer and heading to the northwest in the South China Sea. The next day, a stray line carried one brass tube of sounding machine overboard while it was in use. The *Essex* crew used up all the coal stored on deck and passed through a large fleet of junks. On January 25, the ship was stood into the 'Amoy River' anchored off 'Amoy' - actually called Xiamen, China. For the next few days, courtesies were exchanged with the US Consul, a Chinese government official who questioned Commander Jewell about the ship's destination, and the Chinese gunboat *Chueu Ling*. On January 28, *Essex* left Xiamen, passing lighthouses and heading northeast in the East China Sea toward Japan. The helm was forced to turn to avoid possible shoal water and the crew was using the sounding lead to determine water depth - and lost 10 fathoms of sounding wire. The ship passed a fleet of junks and a French steamer that exchanged colors wth *Essex*. The ship continued on toward Japan through the end of the month, exchanging colors with a with Chinese gunboat and fires in two boilers were hauled due to a leak in boilers #6 and #8.

On February 1, 1887, USS *Essex* was traveling to the northeast in the East China Sea toward Japan. Various provisions condemned as spoiled and thrown overboard and the next day, the ship passed a steamer and approached Nagasaki with the Goto Islands to port on February 3. The ship anchored in Nagasaki Harbor and took on coal and exchanged courtesies with the US Consul and gunboat HMS *Firebrand*. *Essex l*eft Nagasaki Harbor without boilers #6 and #8 under fire, since they were taken out of service one again due to blown out tubes inside #8. Heading south, she turned eastward through the Van Diemen Strait on February 4. The next day, she passed a steamer and on February 6, Commander Jewell awarded the Department of the Navy bronze Good Conduct Medals to two crewmen. *Essex* anchored in Yokohama Harbor the next day, and Commander Jewell visited Rear Admiral Ralph Chandler, Commander of US Asiatic Squadron. Over the next five days, a crewman was transferred to Navy Hospital for treatment and the Board of Survey examined the clutch coupling on *Essex's* propellor shaft. The crew was busy painting the ship's interior and sides, fitted a torpedo boom to the launch, and other crew drills. Courtesies were exchanged between *Essex* and the US Consul, a Hawaiian Minister, sloop USS *Omaha*, and signals were exchanged with sloop Flagship USS *Marion*. The Pacific Mail Steamship Company's (an American business) iron steamer *City of Peking* anchored, along with two other steamers.

For the remainder of February, the *Essex* crew drilled with 'all boats prepped for distant service', the steam launch was sent ashore to moor for the night, and a landing party

was assembled and read Commander-in-Chief's instructions for formation of a Naval Brigade. On February 17, the landing party was sent ashore with 3-inch breech loading rifles; USS *Marion* and USS *Omaha* sent parties ashore to participate in the exercise as well. The boats were returned empty and the landing party boarded them and returned in the evening. Two days later, the crew learned of the death of John Gannon, Seaman Apprentice 2nd Class. Gannon fell into a well on Yokohama; his funeral party was sent ashore and *Essex's* colors were half-masted. Officers auctioned Gannon's effects to his shipmates, as was the custom. In mid-February, *Essex* received a official visit from Governor of Yokohama and a Japanese brig-of-war anchored in the harbor. A crewman in confinement was transferred to *Essex*, and another sailor was assigned to her for temporary duty and USS *Omaha* left Yokohama. Flagship USS *Marion* was cleared for action and she was dressed in celebration of George Washington's birthday; *Essex* followed suit. For the day, USS *Marion* and the shore fort fired 21-gun salutes. Rear Admiral Chandler boarded his Flagship USS *Marion* and she left *Yokohama.*

On February 23, Japanese sloop *Nisshin-kan* and sloop *Hosho* entered Yokohama Harbor and anchored. A Japanese officer boarded *Essex* and requested she be dressed for a visit by Emperor Meiji. The next day, Japanese protected cruiser *Naniwa*, flying the Imperial Standard at her main anchored in the bay. Commander Jewell made an official visit to the Imperial Flagship. *Essex's* crewmen manned her yards, following the motions of the Japanese ships. The unprotected cruiser *Tsukushi* arrived and anchored in the bay, and *Essex* sent an officer offering courtesies. The Commanding Officer of the Imperial Flagship *Naniwa* paid an official visit to *Essex*; an officer from *Nisshin-kan* and the Commanding Officer of *Tsukushi* then visited Essex. *Tsukushi* and *Nisshin-kan* left Yokohama and Commander Jewell visited *Hosho*. Emperor Meiji's Flagship *Naniwa* remained in the harbor for six days.

On March 1, 1887, the Japanese Imperial Flagship *Naniwa* with Emperor Meiji on board, left the harbor. On March 3, The *Essex* crew engaged in shore training activities and preparations were made for ferrying landing party ashore. The battalion left the ship in heavy marching order; later the same afternoon the Battalion returned. Over the next few days, the Japanese training sloop *Hosho* and a P&O steamer left the harbor, and courtesies were extended to American bark *George F. Manson*. Pacific Mail Steamer *City of Sydney* anchored and signaled for the pickup of American mail; *Essex* complied. On March 8, Japanese corvette *Nisshin-kan* anchored and pleasantries were exchanged. An officer of *Nisshin-kan* requested the participation of *Essex* and her crew in the ceremonies attending the entry into Yokohama of the Empress Dowager Shoken of Japan, the wife of the Emperor in a few days. The Japanese ships *Nisshin-kan*, ironclad *Fuso* anchored in Yokohama; officers from the Japanese ships and *Essex* exchanged official visits in preparation for the visit of the Empress. On March 12, *Fuso* left the harbor to act as an escort for the Empress, and *Essex* and *Nisshin-kan* dressed in rainbow colors. Japanese protected cruiser *Naniwa,* with the Empress Dowager on board, entered Yokohama Harbor with *Fuso* and unprotected cruiser *Tsukashi* as escorts. The *Essex* crew 'manned the yards'* and the four Japanese vessels all fired 21-gun salutes as the Empress went ashore; *Essex* extended courtesies with her Marine Guard. Two more Japanese ships entered the harbor, corvette *Kaimon* and

ironclad corvette *Kongo*, and *Essex* exchanged the usual pleasantries. The Japanese ships *Naniwa*, *Fuso*, *Kaimon*, and *Kongo* entered and left the harbor over two days, while Commander Jewell exchanged visits with *Nisshin-kan* and *Kaimon* on March 13.

Also during the first two weeks of March, routine ship management took place. One interesting log entry noted that the Quarterly Board of Survey condemned 1 3/4 pounds of bacon, valued at 42 cents, because it was eaten by rats; other stores condemned as spoiled were also thrown out. On March 9, P&O steamer *Belgie* left the harbor, provisions were brought on board *Essex*, and the next day the steam cutter was disabled by a blown gasket in a steam pipe. On March 11, the steam cutter was hoisted aboard and her boiler was overhauled, and the whale boat was hoisted out and repairs began. A few days later, shore workman came aboard to work on the boilers. On March 16, *Essex* exchanged signals with USS *Omaha* after she anchored. Her captain, Thomas Oliver Selfridge, had been detached and ordered home.** *Essex* hoisted the Guard Flag and Senior Officer pennant for Commander Jewell. The crew continued to be engaged in repairing the launch, main topgallant sail, starboard torpedo spar, and miscellaneous rigging. The next day, the Occidental and Oriental Steamship Company (out of San Francisco) steamer *Oceanic* from San Francisco anchored; *Essex* fired two IX-inch guns and displayed the American Ensign at the fore for one hour. The second ship's cutter was placed in charge of an officer and she placed at the disposal of US Minister to Korea while in Yokohama and official visits were exchanged. Sloop Flagship USS *Marion* entered the harbor and anchored, carrying Rear Admiral Chandler on board; *Nisshin-kan* and *Marion* exchanged salutes. Commander Jewell welcomed the Commanding Officer of the Japanese corvette *Tenryu* on board *Essex* prior to her leaving Yokohama.

During the last 13 days of March work continued on the steam launch, *Oceanic* and *City of Peking* left Yokohama, and visits were exchanged with the US Minister to Korea and officers of *Omaha* and *Marion*. The ship's Marine Corps Battalion joined the Naval Brigade from the other American ships in port for maneuvers. USS *Omaha* left the harbor with the US Minister to Korea on board. Before Flagship USS *Marion* left the harbor, she lowered the Rear Admiral's pennant and it was hoisted onto *Essex's* mast; the procedure was reversed when *Marion* returned later that day; apparently Admiral Chandler remained on *Essex* when *Marion* departed for the day. On March 25, *Essex* made preparations for sea and left harbor for target and torpedo practice before she returned to the harbor. Two days later, the American barques *Sea Breeze* and *George F. Parsons* anchored. During the last few days of March, the Japanese corvette *Kongo*, sloop USS *Brooklyn*, and the Pacific Mail Steamer *City of Rio de Janeiro* anchored and pleasantries were exchanged. *Essex* also received a visit from British Minister Plunkett. A Japanese warship flying a rear admirals pennant anchored in the harbor and pleasantries were exchanged.

In early April 1887, *Essex* transferred a crewman to the Naval Hospital and four crewmen - three of which were court martial prisoners - to USS *Marion*. The steam launch blew out a section of coil tubing and on April 3, *Essex* left Yokohama Bay for Nagasaki; she exchanged signals with *Marion* as she steamed out. Along the way,

Essex exchanged signals with USS *Monocacy* as she approached Kobe Harbor where she anchored for the night and visits were exchanged with the US Consul. On April 7, the ship left Kobe Harbor and resumed steaming through the Inland Sea for the next three days. Along the way, *Essex* exchanged colors with German steamer *General Werder*, and sighted barquentine and a steamer. Three days later, *Essex* anchored in Nagasaki Harbor and exchanged signals with USS *Omaha* and iron gunboat USS *Palos*. Pleasantries were exchanged between the officers of *Essex*, *Omaha* and *Palos*, a Russian gunboat, and the US Consul. On April 12, the ship steamed out of Nagasaki, spending time on on various drills including man overboard and a Marine Guard skirmish drill; the mean also filled and fused IX inch shells. On April 16, *Essex* anchored in harbor of Kulung, Formosa (Taiwan) for part of a day, and then steamed down the east coast of Formosa. On April 18, *Essex* stopped at Samasana Island (Green Island) off the southeast shore of Formosa and sent the whale boat sent ashore to make inquiries about the August 1886 loss of the American bark *Abbie Carver*. The whale boat crew returned with various pieces of wreckage with English and Chinese markings on it, including nut oil cargo and a bucket marked with an “A” in brass. The next day, *Essex* hove to Black Rock Bay and a party was sent ashore to find tidings of the crew of the *Abbie Carver*. On April 20, the ship was anchored off Formosa and the Chinese gunboat *Hy Ching* (probably gunboat *Hai Chang Ching*) went to sea.

Essex headed north in the East China Sea and stopped to take on pilot to stand up the Yang Tse Kiang River (Yangtze) and on April 24, she entered the Wosung River (Suzhou Creek) and took onboard a Shanghai harbor master and she anchored. Courtesies were exchanged with the US Consul General and US Minister to China, and British sloop HMS *Daring*. For the next six days, the crew engaged in washing and scrubbing the ship, worked on the steam launch’s boiler, sent an engine valve ashore for repair, and conducted an evening fire alarm drill - all hoses were streaming in two minutes. The officers also mustered a landing party drill that was equipped in heavy marching order. Courtesy visits were exchanged between *Essex* and British corvette HMS *Sapphire*, HMS *Daring*, French corvette *Primauguet*, and gunboat HMS *Firebrand*.

The first week of May 1887 was spent anchored at Shanghai in the Wosung River conducting ship and armaments maintenance. The ship received a high pressure main valve from repair shop on shore, the Engineering Crew replaced the steam cutter’s boiler, and the men overhauled sounding apparatus. The torpedo officer tested all electrical apparatuses and the gun cotton primers were inspected. At some point, one rowlock was lost from the second cutter. On May 8 *Essex* up anchored and left harbor, heading dow the Wosung River into the Yangste River, where the ship anchored for the night. For the next few days, *Essex* steamed southwest along the Chinese shoreline, sometimes in heavy fog, taking on a pilot and his interpreter. Sometimes the *Essex* stopped due to poor visibility, and the Chinese men inquired of the *Essex* crew if they had any news of the the Chinese Pilot Boat *Ruby*; the boat had wrecked off Fisherman’s Islands the previous November. By May 12 the fog had lifted and *Essex* exchanged colors with a German barque. The next day, the crew threw the mattress, hammock, and blanket belonging to Robert Robertson, Seaman Apprentice 2nd Class, overboard because it was ‘infected’. The ship stopped to pick up a native boat in distress within

sight of then Nagasaki Lighthouse and then stopped to assist a sampan. They hoisted it on board and moved into Nagasaki Harbor and anchored in the outer harbor. The following morning, the crew lowered the sampan and lent her crew two oars and Crewman Robertson was sent to the hospital for treatment. *Essex* shifted her anchorage to the inner harbor as two steamers left port and one steamer anchored.

For the next week from May 15, repairs were made to the steam cutter, men scraped the inside of smokepipe, and fires were hauled in boilers #6 and #8 to make a new hand hole joint. After the repair, the engineers turned over the engines to test the main steam pipe and it was found to be effective. Numerous crewmen were AWOL and rewards were offered for their return, with some local police accepting the rewards. The Chief of Police of a near-by Japanese village paid a visit *Essex* to thank Commander Jewell for rescuing the five fishermen and their sinking sampan. *Essex* officers and a variety of ships and dignitaries exchanged pleasantries while in Nagasaki with the US Consul and the Governor of Nagasaki. *Essex* also exchanged visits and salutes with the Japanese schooner gunboat *Moshun*, French gunboat *Vipere,* Japanese ironclad corvette K*ongo*, Russian corvette *Vitiaz*, and Japanese sloop *Hosho.* Further courtesies were shared with the Russian armored cruiser Flagship *Dmitrii Donskoi* flying a Rear Admiral's flag, and British ironclad Flagship HMS *Audacious* when she entered the harbor flying the pennant of Vice Admiral Richard Vesey Hamilton.

On May 22, *Essex* left Nagasaki Harbor headed for Kobe through the Inland Sea and anchored at Naka Sima the next day; while underway, the chart board glass was accidentally broken. On May 24, the ship got underway and passed through Kurushima Strait, passed two steamers, traveled through St. Vincent Channel and the Akashi Strait into Kobe Harbor. For the remainder of May, the crew drilled at the great guns, transferred a crewman to the hospital, and prepared a landing battalion in light marching order and it was sent ashore for a battalion drill. A hammer pin broke on the #1 gun on the starboard side during cleaning. Visits and pleasantries were exchanged between *Essex* officers and dignitaries from cruiser HMS *Leander*, the American Consul and ViceChair of the US Consul, Japanese corvette *Kaimon*, and the French gunboat *Vipere*. HMS *Leander* and *Kaimon* left Kobe and the *Essex* crew repaired the steam launch engines.

On June 1 two *Essex* crewmen returned from the hospital and the ship left Kobe Harbor heading toward Yokohama. *Essex* temporarily anchored for small arms target practice. Once back underway, after sundown the crew had a general quarters drill. The next day, the crew took spar torpedo exercises and great gun practice; on June 3 *Essex* headed up Yeddo Bay and anchored in Yokohama Harbor. Until the middle of June, *Essex* exchanged visits and courtesies with HMS *Leander*, gunboat USS *Monocacy*, sloop USS *Omaha*, sloop Flagship USS *Brooklyn*, iron gunboat USS *Palos*, French ironclad *Primauguet*, French battleship *Turene*, French gunboat *Vipere*, American ship *Mercury* (bound for Honolulu from Hong Kong), and Austrian corvette *Aurora*. The *Essex* crew was put through drills including arming all the ships boats - except the gig and steam cutter - and equipping them for distant service. The crew was sent in the boats to conduct exercises with boats from the other US vessels in Yokohama Harbor.

Contracted workmen came on board *Essex* and removed a section of the smokestack and parts of a steam pipe for repair on shore. After Commander Jewell inspected the ship, he shared copies of letter from Japan's Minister for Foreign Affairs and the US Minister to Japan concerning the rescue of the Japanese fishermen and their sampan by *Essex* and her crew.

A French Admiral and Rear Admiral Ralph Chandler, Commander of the Asiatic Squadron, exchanged official visits with Commander Jewell. *Essex* and Flagship *Brooklyn* exchanged signals; two of them spelled out in the log said "Hereafter supper at 5:30" and "Army Code Marines wear white trousers". On June 11, a fire was sighted on shore and the flagship signaled *Essex* to send fire party; two cutters were sent and later the steam cutter towed the fire party back to the ship. Also, five crewmen were transferred from USS *Brooklyn* to *Essex* and two crewmen were transferred to the hospital. USS *Omaha* fired 13-gun salute in honor of the French Commander-in-Chief, and a Japanese man-of-war fired a 13-gun salute with the US and French flags at the fore. On June 16, *Essex* shifted her berth using the fleet's small boats to tow her, and a new smoke pipe was received on board and fitted. During the last two weeks of June, the ship's steam cutter broke down and her boiler was hoisted out for repair, the sailing launch was sent to the flagship for fresh water, shore mechanics worked in the Engineering Department, and the steam launch was returned from the machine shop; she was hoisted clear of the water and the crew scrubbed her copper bottom. During a landing exercise, the 1st cutter lost one oar and her flagstaff. Courtesy visits were exchanged with the French gunboat *Aspic*, Flagship HMS *Audacious* flying a Vice Admiral's pennant, HMS *Heroine*, HMS *Constance*, and Italian cruiser *Rapido*.

Several salutes took place in later June: USS *Brooklyn gave a* 13-guns salute to a Japanese Admiral when he left the American flagship, Russian ships fired 21-gun. 7-gun, and 15-gun salutes, *Essex* dressed with the English flag at main and fired a salute in honor of her Britannic Majesty Victoria's Jubilee, and she again dressed in honor of the anniversary of the coronation of Queen of England. All the ships in Yokohama Harbor fired 21-gun salutes in Queen Victoria's honor. In the last week of June several warships left Yokohama including French ironclad *Primauguet*, gunboat *Vipere*, and gunboat *Aspic*, and USS *Omaha*. On June 30, a Japanese squadron of three warships vessels anchored in the harbor with one ship flying a rear admiral's flag.

*Manning the yards is the ceremonial procedure when the ship's crew climb the masts and stand, hand in hand, on the ship's yards.
**Captain Selfridge and USS *Omaha* had conducted target practice on the island of Ikeshima on March 4, 1887, killing four Japanese civilians and injuring several others, causing an international incident.

Tags:
American Ships: bark *Abbie Carver*, steamer *Belgie*, sloop Flagship USS *Brooklyn*, mail steamer *City of Peking*, mail steamer *City of Rio de Janeiro*, sloop-of-war USS *Essex*, bark *George F. Manson,* barque *George F. Parsons*, sloop Flagship USS *Marion*,

gunboat USS *Monocacy*, steamer *Oceanic* (American operated, British owned), sloop USS *Omaha*, iron gunboat USS *Palos*, barque *Sea Breeze*

Austrian Ship: corvette *Aurora*

British Ships: gunboat HMS *Alacrity*, ironclad Flagship HMS *Audacious*, corvette HMS *Constance*, sloop HMS *Daring*, gunboat HMS *Espoir*, gunboat HMS *Firebrand*, corvette HMS *Heroine*, cruiser HMS *Leander*, gunboat HMS *Linnet*, survey vessel HMS *Rambler*, corvette HMS *Sapphire*, sloop HMS *Satellite*

Chinese Ships: gunboat *Chueu Ling*, gunboat *Hy Ching/Hai Chang Ching*, pilot boat *Ruby*

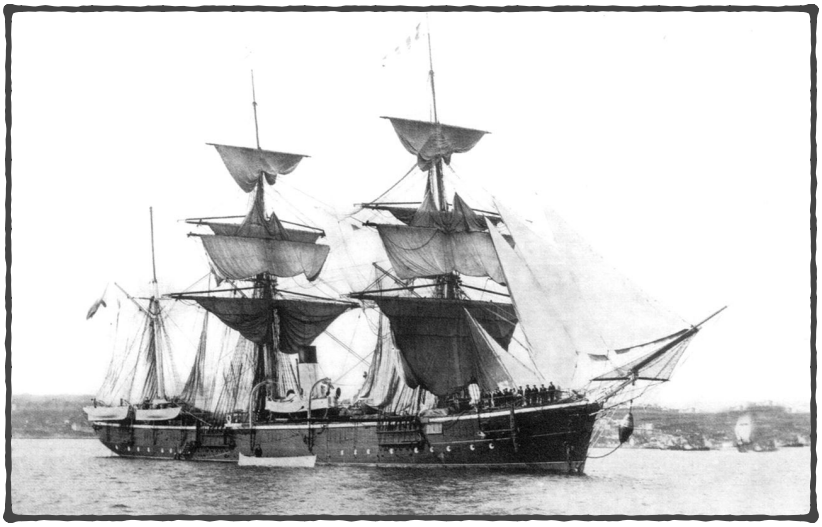
French Ships: gunboat *Aspic*, gunboat *Chasseur*, cruiser *Primauguet*, battleship *Turene*, gunboat *Vipere*

Italian Ship: cruiser *Rapido*

Japanese Ships: ironclad *Fuso*, sloop *Hosho*, corvette *Kaimon*, ironclad corvette *Kongo*, schooner gunboat *Moshun*, protected cruiser Imperial Flagship *Naniwa*, sloop *Nisshin-kan*, corvette *Tenryu*, unprotected cruiser *Tsukushi*

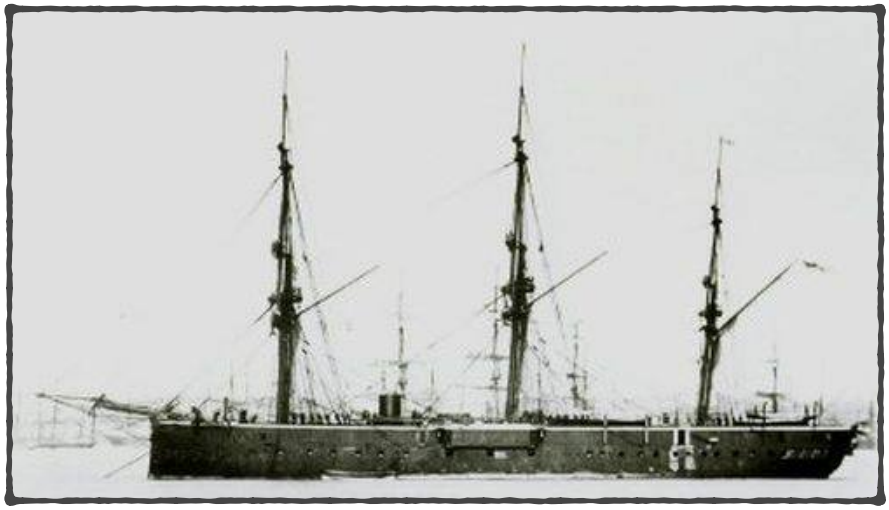
Russian Ships: armored cruiser Flagship *Dmitrii Donskoi*, corvette *Vestnik*, corvette *Vitiaz*

Naniwa



Vestnik

HMS *Audacious*



LOG BOOK

OF THE

U. S. Steamer "Essex"

3rd RATE

OF Six GUNS,

COMMANDED BY

T. F. Jewell Commander, U. S. Navy,

Attached to Asiatic Squadron,

Commencing January 1st, 1887,

at Singapore,

and ending June 30th, 1887,

at Yokohama

BUREAU OF NAVIGATION,

NAVY DEPARTMENT.

1886.

LIST OF OFFICERS

Attached to and on board of the U. S. S. Essex 3d Rate, commanded by Commander T. F. Jewett, U. S. N., during the period covered by this Log-Book, from January 1st, 1864, to June 30th, 1864.

NAME.	RANK.	NAME.	RANK.
T. F. Jewett	Commander		
J. A. Bickmore	Lieut. Comdt		
A. V. Wadhams	Lieutenant		
C. S. Galloway	Lieutenant		
H. C. Goaring	Lieutenant		
B. T. Walling	Lieutenant		
A. F. Fechteler	Ensign		
Sargt. Postman	Ensign		
H. C. Poundstone	Ensign		
F. J. Loomis	Ensign		
W. B. Taggatt	Ensign		
J. A. Hawke	Surgeon		
J. W. Timms	Chief Engineer		
H. R. Tuttle	P. Asst Paymaster		
J. K. Barton	P. Asst Engineer		
J. C. Redgrave	Asst Engineer		
John Arnold	Cadet Engineer		
R. S. Wainwright	1st Lieut C. S. M. C.		
M. S. Hamlet	Pay Clerk		
E. R. Evans	Naval Cadet		
F. R. Lewis	do		

Examined and found to be correct.

E. D. Galloway
Lieut. and Navigator.

LIST OF OFFICERS

Who have died, been detached, or transferred, on board the U. S. S. "Essex" 3d Rate

commanded by T. Pickett Commander, U. S. N., during the period covered by this

Log-Book, from January 1st, 1867, to June 30th, 1867.

NAME.	RANK.	TIME OF OCCURRENCE AND PARTICULARS.
Hugh Rossman	Ensign	Jany 22d Hospital, Hong Kong
E. E. Evans	Naval Cadet	Feby 23d Naval Academy
L. C. Fraring	Lieutenant	March 20th U. S. S. Omaha
Wm Arndt	Cadet Engineer	do 22d U. S. S. "Marion"
B. F. Walling	Lieutenant	June 21st U. S. F. S. "Brooklyn"
A. V. Wadhams	Lieutenant	do 24th U. S. F. S. "Brooklyn"

Examined and found to be correct.

T. D. Galloway
Lieut. and Navigator.

COMPLEMENT of Petty Officers, Seamen, Ordinary Seamen, Landsmen, Boys, and Marines on board of the U. S. S. "Essex" 3d Rate at first commissioning June 21st 1886.

NUMBER ALLOWED.	RATES.	NUMBER ON BOARD.
1	Chief Boatswain's Mate,	1
2	Boatswain's Mate,	2
	Seamen Gunners,	
1	Chief Gunner's Mate,	1
	Gunner's Mates,	
1	Chief Quartermaster,	1
3	Quartermasters,	3
3	Coxswains,	3
2	Captains of Forecastle,	2
4	Captains of Tops,	4
2	Captains of Afterguard,	2
3	Quarter-Gunners,	3
1	Carpenter's Mates,	1
1	Sailmaker's Mates,	1
1	Armorer,	1
1	Captains of Hold,	1
1	Ship's Cook,	1
1	Ship's Corporals,	1
1	Lamp-lighter,	1
2	Carpenters and Calkers,	2
1	Baymen,	1
1	Master-at-Arms,	1
1	Apothecary,	1
1	Ship's Yeoman,	1
1	Paymaster's Yeoman,	1
1	Engineer's Yeoman,	1
1	Schoolmaster,	1
1	Ship's Writer,	1
1	Ship's Tailor,	1
1	Ship's Barber,	1
1	Painter,	1
1	Bugler,	1
1	Jack of the Dust,	1
1	Blacksmith,	1

NUMBER ALLOWED.	RATES.	NUMBER ON BOARD.
1	Cabin Steward,	1
1	Cabin Cook,	1
1	Ward-room Steward,	1
1	Ward-room Cook,	1
1	Steerage Stewards,	1
1	Steerage Cooks,	1
	Warrant Officer's Steward,	
	Warrant Officer's Cook,	
8	Seamen,	8
	Ordinary Seamen,	
16	Landsmen,	16
	Boys,	
70	Apprentices,	63
2	Machinists,	2
1	Boiler Makers,	1
3	Water Tenders,	3
3	Oilers,	3
1	First-class Firemen,	1
6	Second-class Firemen,	6
12	Coal Heavers,	12
	TOTAL,	166

ADDITIONAL FOR FLAGSHIP.

Master of the Band,	
Chief Musician,	
First-class Musicians,	
Second-class Musicians,	
Printer,	
Steward to Commander-in-chief,	
Cook to	do.
Coxswain to	do.
Seamen to	do.
Ordinary Seamen to	do.
Landsmen to	do.

Examined and found to be correct.

W. D. Galloway Lieut Navigator.

U. S. S. "Essex" 3rd Rate

Description of Instruments used for Meteorological Observations, their Location, &c.

INSTRUMENT.	MAKER.	NUMBER.	LOCATION.	DATE OF LAST COMPARISON.	COMPARED WITH—	ERROR.
MERCURIAL BAROMETER.	Jas. Green New York	1496	Capt's Office abaft Cabin	Aug 30th 1886	Nav. Dept Bklyn Navy Yard	0
ANEROID BAROMETER.		P H N B	Cabin Bulkhead			
THERMOMETER, (Dry Bulb.)	J. & J. Green	1520	Mizzen Mast Under Poop Deck	March 30th 1885	Signal Office Washington	18° to +112° −0°.3 to +0°.1
THERMOMETER, (Wet Bulb.) (Psychrometer.)	J. & J. Green	1534	Do	Do	Do	−18° to 112° −0°.6 to +0°.1

Examined and found to be correct.

C. D. Galloway Lieut. and Navigator.

ARMAMENT

Of the U. S. S. "Essex" 2nd Rate

PRIMARY.

NO. OF GUNS.	CAL.	MARK.	DESCRIPTION.	CARTRIDGE. POWDER.	CARTRIDGE. WEIGHT.	PROJECTILES. KIND.	PROJECTILES. WEIGHT.	CARRIAGES.	REMARKS.
14	9"	Ct. Wks	SB	Cannon	13½ lbs	Shot	90 lbs	14	Broadside
364	"	"	"	"	"	Canister	4/0	18	"
366	"	"	"	"	"	Shell	4/0	52	"
368	"	"	"	"	"	Grape	4/4	74	"
13	8"	B. L. Rifle		35		Parrott	168	31	Iron Pivot
	60 Pdr		"	Rifle	6	Parrott	60		Directing Bar

SECONDARY.

4 12 lbs Howitzers

BOAT ARMAMENT.

1 12 Pdr Light S. B. Dahlgren
1 3" B. L. R.

SMALL ARMS.

45 Hotchkiss Repeating Rifles Cal .45
45 Colts Revolvers " 38
40 Cutlasses

Examined and found to be correct.

D. L. Galloway Lieut. and Navigator.

TABLES of Deviation of the Standard Compass No. 68 on board the U. S. S. "Essex"

DATE:	January 14th 1864
PLACE OF OBSERVATION:	Manila Bay
LATITUDE:	N 14°28'
LONGITUDE:	E 120°40'
OBSERVED VARIATION:	E 36'

SHIP'S HEAD BY COMPASS.	DEVIATION.	DEVIATION.	DEVIATION.	DEVIATION.	DEVIATION.	DEVIATION.
NORTH.	E 1°22'					
N. by E.						
N. N. E.	E 1°41					
N. E. by N.						
N. E.	E 2°38					
N. E. by E.						
E. N. E.	E 2°30					
E. by N.						
EAST.	E 1°01					
E. by S.						
E. S. E.	E °14					
S. E. by E.						
S. E.	W °44					
S. E. by S.						
S. S. E.	W 1°36					
S. by E.						
SOUTH.	W 1°38					
S. by W.						
S. S. W.	W 1°08					
S. W. by S.						
S. W.	W 1°24					
S. W. by W.						
W. S. W.	W 1°12					
W. by S.						
WEST.	W °56					
W. by N.						
W. N. W.	W 1°25					
N. W. by W.						
N. W.	E °14					
N. W. by N.						
N. N. W.	E 1°10					
N. by W.						

Examined and found to be correct.

T. D. Galloway Asst. Engr. & Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate,

At Anchor, off Singapore

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.?	State of the Sea.
A. M.																	
1		Flood		N. E.	N. N. E.	2			30.02	84	78	75		b.c.	cum str	9	S
2		"		"	"	2			29.98	84	78	75		"	"	2	"
3		"		"	"	2-1			29.96	84	78	75		"	"	9	"
4		"		"	"	2-1			29.96	84	78	75		"	"	8	"
5		"		"	"	0-1			29.96	84	78	76		"	cir. str	8	"
6		"		"	"	1			29.94	86	78	73		"	"	2	"
7		"		N. E. by N.	"	1			30.00	86	78	73		"	"	8	"
8		"		"	North	1			30.00	84	78	74		"	"	2	"
9		"		"	N. E. by N.	2			30.03	84	78	75		"	"	5	"
10		"		"	N. N. E.	2			30.02	81	81	76		"	"	5	"
11		"		N. E.	North	2			30.02	83	83	78		"	"	4	"
Noon.		"		E. N. E.	East	2			30.00	81	81	78		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M.: Latitude by DR N 1 ° 22 "
Longitude by Bearings of Horsburg Light E 104 ° 29 "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 420 gallons.

Water Distilled during the preceding 24 hours, 1130 "

Water remaining on hand fit for use at Noon, 1800 "

Coal consumed during the preceding 24 hours, 11 tons 60 lbs.

Coal remaining on hand at Noon, 104 " 1470 "

P. M.														
1			Flood		E. N. E.	N. N. E.	2	29.94	84	78	74	b.c.	circum	6 S.
2			"		N. E. by N.		2	29.95	84	83	73	"	"	6 "
3			"	32.4	E. 1/4. N.	E. N. E.	3	29.91	83	82	72	"	cumul	3 "
4	6	25	38.8		"		3	29.91	82	82	74	"	"	2 "
5	6	5	46.3		"	N. E.	3	29.93	81	82	78	"	"	3 "
6	4	21	52.5		"	N. by E.	3	29.94	80	80	79	"	"	3 "
7	2	0	58.6	N. E. by E.	N. E. by E.	N. E. by N.	4	29.95	80	80	76	"	cir cumu	5 "
8	5	3	63.9		N. E.		4	29.98	80	80	76	"	"	6 "
9	6	1	70.0	N. E. by E. 3/4 E.	N. by E.		4	30.00	79	79	75	"	"	6 "
10	6	2	76.2		"		4	30.01	79	79	75	"	"	2 "
11	6	5	82.4	N. E. by E. 1/2 E.			4	30.01	79	79	75	"	"	2 "
Mid.	6	4	89.1	"			4	30.00	79	79	74	"	"	5 "

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday January 1st, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences 2nd Watch 4 A. M.
Cloudy clear; bright starlight. Cloudy, cum-str. Light airs to brez from N. N. E. Flood tide. Distilling.
A. C. Coundelaye
Ensign U. S. N.

From 4 to 8 A. M.
Clear pleasant weather. Light airs from N. N. E & calms. Distilling.
P. Ward
Lieut U. S. N.

From 8 A. M to Meridian
Weather pleasant, partially cloudy. Light brez from N. N. E to East Flood tide. Getting ready for sea. At 9.30 started fires in four boilers 2 4 6 & 8.
C. A. T. Leckie
Ensign U. S. N.

From Meridian to 4 P M
Partly clear; hot first part pleasant, afterwards. Cloudy cir-cumn & cumf. Light breze from N. N. E first part; gusty E. N. E. breze afterwards. At 1 o'clock brot to Ham, rigged in & secured boats for sea, unshipped side ladders. Draft of ship ready for sea 14 ft forward, 16 ft Aft. At 3.20 went to quarters for muster & secured Battery for sea. At 2 o'clock R. F. Fobroch, La Alb 2 C, was brought on board from Civil Hospital. At 2.10 turned engines over & found them ready for sea. Called "Up Anchor", at 2.23 Anchors aweigh at 2.40, when went ahead one bell. H. M. S. "Satellite" made Int Signal F. C. S. W. Answered R. S. J. & made S. C. L. J. N. P. H. M. C. Stood out of harbor on course E 1/4 N. At 3 o'clock put over P. L. pilot at 3.7 At end of watch on course E 1/4 N. Under steam alone. Steaming out thro Singapore Straits in charge of Navigator. Smooth sea. Ship steady. Steam 50. Revolutions 35. Distilling.
A. C. Coundelaye
Ensign U. S. N.

From 4 to 6 P. M.
Fair & pleasant. Moderate breze from N. E & N. by E. Standing out of Singapore roads on course E. by N. At 4.10 set fore & aft sails except flying jib. Off Pulo Sea Smooth. Sent down T Gt Yards & unbent T. Gt Sails
C. D. Galloway
Lieut U. S. N.

From 6 to 8 P. M.
Clear & pleasant. Moderate breze from N. E by N. with moderate rising sea. Moonlight. At 6.10 sighted Horsburgh Light bearing N. E by E 1/2 E. At 6.15 changed course to N. E by E, patent log 5.5 and hooked in T & A. Sail. At 6.40 changed course to N. E, patent log 5.6. Passed a steamer bound to Lo. At 7.15 Horsburgh Light abeam distant 6 miles. At 8.00 Light bore S. S. W 3/4 W. Steam under four boilers. Distilling
H. Wadsworth
Lieut U. S. N.

From 8 P. M. to Midnight
Clear, cool, pleasant weather. Moderate breze from N by E. Sea moderate. At 8.01 changed course to N. E by E 3/4 E & at 10.00 to N. E by E 1/2 E. At 10.00 lost sight of Horsburgh Lt House bearing S. W by W 7/8 W. Observed by bearings of light that ship was being set to S & E about a knot an hour. Barometer rising. At 8.05 set fore & aft sail. At end of watch ship under steam & fore & aft sail. Distilling.
P. F. Downes
Lieut U. S. N.

Examined and found to be correct.
S. R. Warhams Lieut U
Navigator.

LOG of the UNITED STATES Steamer "Esse", 3d Rate,

At Sea making passage to ~~Hong Kong~~ Manila

	Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
	A. M.																	
9 1186	1	6	4	95.4	N. E. by E. 1/2 E.	N by E	4	3		29.99	79	79	79	80	b c	str cumu	8	
N 1°.15	2	6	8	102.4	"	"	4	3		29.97	79	79	79	80	"	"	8	"
E 105°	3	6	6	109.4	"	"	4	2		29.95	79	79	78	80	"	cirrus	5	"
	4	6	6	16.9	"	"	4	2		29.94	79	79	78	80	"	cumu	9	"
	5	6	0	22.9	"	"	4			29.94	79	79	79	80	"	cir	8	"
	6	6	9	29.8	"	N. E. by N.	4			29.92	79	79	78	80	b c h	cirrus	6	"
	7	4	3	35.1	"	"	4			29.98	79	79	78	80	"	"	4	"
	8	4	1	44.2	"	N. E.	4			30.00	80	79	78	80	"	cirr cumu	3	"
	9	4	4	51.6	"	North	4	2		30.02	79	79	79	80	b c	cirr cumu	6	"
	10	6	8	58.4	"	"	4	2		30.02	79	79	79	80	"	cir cumu	2	"
	11	5	9	64.3	N. E. by E.	"	4	2		30.01	80	79	79	79	"	cirr str	8	"
	Noon.	6	0	71.3	"	"	4	2		30.00	80	79	79	75	"	"	8	"

Course and distance made good since preceding noon by observations, S 84 W 1st mast E ½ E 46 E 102 knots tenths.

Position at Noon:
- Latitude by D. R. — N 2 ° 12 "
- Longitude by D. R. — E 106 ° 05 "
- Latitude by observations of ⊙ — N 1 ° 48 "
- Longitude by chronometer from Forenoon Observations of ⊙ Barings Isl Victoria Island — E 106 ° 09 "

09.1186

Position at 8 a. m.:
- Latitude by DR — N 1 ° 38 "
- Longitude by Chro do do do — E 105 ° 39 "

Position at 8 P. M.:
- Latitude by DR — N 2 ° 16 "
- Longitude by Chro ~~8 PM~~ do do — E 104 ° 05 "

Current during the time, 1 knots 5 tenths per hour, setting to the S. by E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 7.55 " N E by E 1/2 E E 49 ' "

Variation of the Compass by Azimuth ⊙ observed at 8.55 " N E E 3 ½ "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 1500 "

Water remaining on hand fit for use at Noon, 2900 "

Coal consumed during the preceding 24 hours, 11 tons 60 lbs.

Coal remaining on hand at Noon, 1, 4 " 170 "

P. M.																		
1	6	2 8	41.5	N. E by E N. E.	North	3	4		29.94	81	80	76	80	b c	cir cumu	8	
2	5	0	85.3	"	N by W	3	4		29.94	81	80	76	80	"	cumu cir cumu str	4	"
3	4	9	92.2	"	North	3	4		29.91	81	80	76	80	"	cir cumu cumu str	6	"
4	6	4	99.9	"	"	"	3	4		29.90	80	80	76	80	"	"	6	"
5	4	0	108.0	"	"	"	3	4		29.91	80	79	76	80	"	cir cumu str	4	"
6	8	0	116.1	"	"	"	3	4		29.92	80	79	76	80	"	"	5	"
7	8	0	24.1	"	"	"	3	4		29.94	79	79	76	80	"	"	8	"
8	8	9	32.0	"	"	"	3	4		29.96	79	79	79	80	"	"	4	"
9	6	5	38.5	"	"	"	4	0		29.99	78	78	76	79	"	"	5	"
10	6	4	44.9	"	"	"	4	0		29.99	78	78	76	79	b c fr	cumu nimb	4	"
11	4	9	49.8	"	"	"	3	0		29.99	78	78	76	79	"	"	5	"
Mid.	5	4	55.5	"	"	"	3	0		29.99	78	78	76	79	"	"	4	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday January 2d, 185[illegible].

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Latter part A M

Generally clear, bright starlight. Pleasant. Some cumulus str and cumb. Moderate breeze from N by E. Moderate N. E by sea. Ship steady. At end of watch on course N. E by E 1/2 E. Under steam and fore and aft sail. Steam 48 Revolutions 6 knots Sixteening.

A T. Seaman
Ensign U S N.

From 4 to 8 A M

Fair and pleasant. Moderate breeze from N. E by N. Sea smooth. Light passing shower at 6 A.M. Same course and sail Sixteening

C. D. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian

Fine weather. Moderate breeze and sea from North. At 9.30 quarters with inspection of ship and crew. At 10 A.M. Lights Victory Island bearing E. S. E and at 10.5 changed course to N. E by E. patent log reading 6 + 3. At 11.00 o'clock ahead nine minutes. Last hour passed through patches of "Whale's food." At 12 M. Victory Island bore S. E. 1/4 S. Sent C. D. Galloway, turned over to Passed Asst Engr H. P. Smith, the effects of the late Peter Daugherty, & C. apps. Sixteening.

H. G. Seaming.
Lieut U. S. N.

From Meridian to 4 P M

Clear pleasant weather. Gentle to moderate breeze from North and N by W. At 12.09 changed course to N. E. By order of Capt Officer relieved Lieut Branagan C. Hot from compliement. At 2.00 Stopped sixteening & at 2.30 commenced steaming with six boilers. At 2.00 lost sight of Victory Island bearing S by W. At end of watch under steam six boilers fore and aft sail. Steering course N. E.

R. F. Dalling
Lieut U. S. N.

From 4 to 6 P M

Partly clear with cirrus and str clouds. Pleasant. Gentle to moderate breeze from North. Moderate N. N. E sea to which ship pitches easily. At end of watch on course N. E, under steam fore and aft sail. Steam 52 Revolutions 8.

A T. Seaman
Ensign U S N.

From 6 to 8 P M

Clear and pleasant first hour, fair last hour. Cirrus clouds passing over rapidly from North. Sea smooth. Gentle steam from N. E. Moonlight. At 8 P.M. reduced speed to maximum of 6 knots.

C. D. Galloway
Lieut U. S. N.

From 8 P M to Midnight

Generally fair and pleasant. Frequent passing spits of rain. Moderate to gentle breeze from North. Moonlight. Steam fore and aft. Sailed with speed reduced, average 6 knots.

H. G. Seaming.
Lieut U. S. N.

Examined and found to be correct.

A. T. Wareham. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex" 3d Rate,

At Sea making passage to ~~Hong Kong~~ Manila

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	5	0	60.5	N.E.	North	2			29.96	78	78	75	79	b.c.	cumi	8	2
2	6	0	66.5	"	"	2-3			29.94	78	78	75	79	"	"	7	"
3	6	5	73.0	"	"	2-3			29.93	78	78	75	79	"	"	7	"
4	6	6	79.6	"	"	2-3			29.92	78	78	76	79	b.c.h.	"	7	"
5	5	6	85.2	"	"	3			29.93	78	78	76	79	b.c.	cumi	6	M
6	4	8	90.0	N.N.E.	"	3			29.94	78	78	76	79	"	"	5	"
7	4	9	94.6	N.N.E.	"	3			29.96	78	78	75	79	"	"	2	2
8	2	9	3.5	E.N.E.	"	3			29.98	79	78	76	78	"	"	1	"
9			4.2		"	3-2			30.00	80	79	76	78	"	"	3	"
10	10	0	14.0	S.W.by W.	W.N.W.	3			30.01	80	78	75	78	"	cir cumi	4	"
11	3	6	18.0	S.E.by E.	N.E.	3			30.00	80	79	76	78	"	"	6	"
Noon.	3	5	21.5	E.by S.	"	3			29.98	80	76	78		"	"	6	"
	4	0	25.5														

Course and distance made good since preceding noon by observations, N.E.by E 11.5 knots tenths.

Dy. 1186

Position at Noon:
- Latitude by D. R. — N 3.09 "
- Longitude by D. R. — E 104.45 "
- Latitude by observations of ⊙ — N 2.52 "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 104.46 "

Position at 8 a. m.:
- Latitude by D R — N 3.05 "
- Longitude by Chrs. Do Do Do — E 104.53 "

Position at 8 P. M.:
- Latitude by D R — N 3.35 "
- Longitude by Chrs. O.M. Do Do — E 108.41 "

Current during the time, knots 2 tenths per hour, setting to the South

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4.26 P.M. " N.E. E 1.08 "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 200 "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, 10 tons 300 lbs.

Coal remaining on hand at Noon, 103 " 2110 "

P. M.															
1	1	2	34.3	E.by S. E.N.E. 1/2 E.	North	3	0	29.96	81	80	76	79	b.c.	cir cirs cumi	4	S
2	3	3	38.1	N.E. 1/2 N.	N.by W.	3	0	29.93	80	79	76	79	"	"	5	"
3	3	6	51.5	"		3	0	29.91	80	79	76	79	"	"	5	"
4	3	3	59.8	"	N.E.	2	0	29.89	81	80	76	79	"	"	5	"
5	3	5	68.3	"	"	1-2		29.89	80	80	76	79	"	"	4	"
6	6	5	76.8	"	"	2		29.90	80	79	75	79	"	"	2	"
7	3	0	83.6	N.E.	"	2		29.93	79	79	75	78	b.c.h.	cumi str cumi	5	"
8	4	4	93.4	"	"	2		29.95	79	78	75	78	b.c.	"	4	"
9	4	9	100.8	"	"	3		29.96	79	79	76	78	"	cir cumi	8	"
10	3	3	8.7	"	"	3		29.94	79	79	76	76	"	"	5	"
11	3	3	17.0	"	"	3		29.94	79	79	76	78	"	"	4	"
Mid.	4	6	24.6	"	"	3		29.96	79	78	75	78	"	"	3	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday January 3rd, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Curtis H. A. M.

Generally clear with passing showers last hour. Light to gentle breeze from North. Steering a course N. E. under steam, jib, foretopmast staysail, main trysail and spanker. Long swell from North. Sea smooth.

B. W. Wagner
Lieut U. S. N

From 4 to 8 A. M.

Partly clear with cumulous clouds. Gentle breeze from North. Moderate sea first part, smooth, afterwards. At 5h sighted land, on starboard bow bearing (pc) N. E by E. At 5h 45m changed course to N. N. E. P. L. 9.0. Took in fore and aft sail. At 6h slowed to one bell and changed course to N by W. P. L. 9.2. At 6h 30m changed to N. N. E. P. L. 9.1.5. At 7h 25m changed course to E. N. E. P. L. 10.1.5. At end of watch, on course E. N. E, under steam, alone, going one bell. Steam 50. Revolutions 36.

C. A. F. Jochim
Ensign U. S. N.

From 8 A. M. to Meridian

Fair and hazy. Gentle breeze from N. E. Smooth sea. At 8h 10m bottom was seen ahead and on both bows. Stopped and backed engines. Got cast with hand lead 4 fms. At 8h 15m East end "Long Island" bore S. 15° W. East end S. 32° E. Hauled in patent log reading 4.2 knots. Felt way out, running with boat. Sundry officers and Navigator, coming from foretop. At 9h 2m set course S. W. Went ahead full speed. Island bearing East end S by E 1/2 E, West end S. E 1/4 E. At 9h 25m changed course to S. W by W, ran ten miles changed course to S. E by E. patent log reading 14.4. At 11h 55m changed course E by S. Set log 2.5 at 11h set jib, foretopmast staysail, main trysail and spanker. At 12, center of Long Island bore N. E. At 10h quarters, inspection of clothing and dirty bread. At 11h 30m shifted jib, foretopmast staysail main trysail.

C. D. Galloway
Lieut U. S. N

From Meridian to 4 P. M.

Warm and pleasant. Gentle breeze from N by W. until 3h 30m when came out N. E and fine light. Smooth sea. At 1.30 set new main trysail. At 2h 30m set new jib. At 3h 10m took in aft sail. At 3h 20m changed course to E. N. E. patent log 26.1. At 12h 7m changed course to E. N. E 1/2 E, patent log 27.8. At 1h 25m changed course to N. E 1/2 N, patent log 38.1. At 2h 45m sighted Natuna Island bearing about North. At 4h 30m lost sight of Long Island bearing W. S. W. and highest peak of Natuna Island bore N. 1/4 W. Steam alone with six boilers at end of watch.

N. L. Gearing
Lieut U. S. N

From 4 to 6 P. M.

Cloudy pleasant weather. Light airs to light breeze from North. Steering course N. E 1/2 E under steam alone. At end of watch Westernmost pt. of Natuna Islands bore N. W by W 1/4 W (Mag) Highest point Natuna Is N. W by N. Steam 49. Revolutions 37.

B. W. Wagner
Lieut U. S. N

From 6 to 8 P. M.

Cloudy first part with passing showers. Clearing latter part; bright moonlight. Pleasant. Ends cumulus and cirrus. Light breeze from N. E. At 6h 45m changed course to N. E. P. L. 36. Smooth sea with long 11 second ship pitching easily. At end of watch, on course N. E. under steam alone. Steam 51. Rev 49.

C. A. F. Jochim
Ensign U. S. N.

From 8 P. M. to Midnight

Clear first part. Cloudy with light sprinkle of rain later part. Light breeze from N. E. Gentle shower from N. E. Smooth sea. Moonlight. Course N. E. Steam alone.

C. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

S. V. Wadhams. Lieut U. S. N Navigator.

LOG of the UNITED STATES Steamer "Essex", 30 Rate,

at Sea making passage to ~~Hong Kong~~ Manila.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	9	32.5	N. E.	N. by E.	3	0		29.95	78	78	75	78	b. cl.	cum.	5	S.
2	8	0	40.5	"	"	3	0		29.92	78	78	75	78	b. cum.	"	5	"
3	7	9	48.4	"	"	3	0		29.90	78	77	75	78	"	"	5	"
4	7	8	56.2	"	"	3	0		29.90	78	77	75	78	"	"	5	"
5	8	0	64.2	"	N. N. E.	3	0		29.90	78	77	75	78	b. c. d.	"	3	"
6	8	2	72.4	"	"	3	0		29.91	78	77	75	78	"	"	5	"
7	8	2	80.6	"	N. E. by N.	2	0		29.93	78	78	75	78	b. c.	"	5	"
8	8	9	89.5	"	"	2	0		29.95	79	78	76	78	"	"	6	"
9	7	9	97.4	N. E. 1/4 N.	"	1			29.98	80	79	76	78	b. c.	cum. str.	4	S. W.
10	8	9	106.0	"	"	1			29.98	80	79	76	78	b. c.	"	3	"
11	7	6	113.6	"	"	1			29.99	80	80	76	79	"	"	4	"
Noon.	7	6	121.2	"	N. E. by E.	1			29.96	80	80	77	79	b. c.	"	2	"

Course and distance made good since preceding noon by observations, N. E. 1/2 E. 193 knots. tenths.

Position at Noon:	Latitude by D. R.	N 5° 02'	"
	Longitude by D. R.	E 110° 11'	"
	Latitude by observations of ⊙	N 4° 55'	"
	Longitude by chronometer from Forenoon Observations of ⊙	E 110° 16'	"
Position at 8 a. m.	Latitude by D R	N 4° 33'	"
	Longitude by Chro ~~do~~ ~~do~~ ~~do~~	E 109° 54'	"
Position at 8 P. M.	Latitude by D R	N 5° 42'	"
	Longitude by Chro ~~do~~ ~~do~~ ~~do~~	E 111° 10'	"

Current during the time, knots 4 tenths per hour, setting to the S. E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 10 " N. E. 1/2 N. E 1° 08' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 12 tons 1920 lbs.

Coal remaining on hand at Noon, 91 " 190 "

	P. M.												
	1	7	9	22.6	N. E. 1/4 N.	East	2		29.92	80	79	76	78	b. c.	cir cum	5	S. W.
	2	8	5	29.5	"	"	2		29.90	80	80	76	78	b. c.	"	4	"
	3	8	0	38.0	"	"	2		29.88	80	79	76	78	"	"	3	"
	4	8	3	46.0	"	"	2		29.88	80	79	76	78	"	"	3	"
	5	6	5	54.3	"	"	2	0	29.88	80	79	76	78	"	"	6	"
	6	7	7	60.8	"	"	2	0	29.90	79	78	75	78	"	"	5	"
	7	8	1	68.5	"	"	2		29.92	79	78	75	78	"	cir cum	5	"
	8	8	1	76.6	"	"	2		29.95	79	78	73	78	"	"	4	"
	9	7	6	84.2	"	"	2		29.97	78	78	75	77	"	cir cum	6	"
	10	7	8	92.0	"	"	2		29.97	78	78	76	76	"	cir	4	"
	11	8	0	100.1	"	E. N. E.	2		29.97	79	78	76	76	"	"	6	"
	Mid.	8	0	15.9	"	"	2		29.96	79	78	76	76	"	"	3	"

under the command of Commander T. F. Jewett, U. S. Navy,

Tuesday January 4th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A. M.

Clear, overhead with light haze, around horizon. Gentle N. by E. breez. Sea smooth. Steam alone, 6 boilers. Course N. E.

H. Helfenstein
Lieut U. S. N.

From 4 to 8 A. M.

Pleasant weather, cold, slight drizzle first two hours. Gentle breze from N. N. E. to light breze from N. E. by N. Steering a course N. E. under steam alone. Long swell from North. Steam 45. Revolutions 46.

D. F. Wagner
Lieut U. S. N.

From 4 A. M. to Meridian

Partly clear with cirro-cumulus and cumulus clouds. Passing showers at 8 last hour. Light airs from N. E. by N. shifting to N. E. by E. last hour. At 8h 25m changed course to N. E. ½ N. By 8h. At 9h 5m went to General Quarters; all ready for action in 5m 10s. Set clock ahead five (5) minutes. Scraping pin rail and pipe rails & getting ready to batten down for rigging. Smooth sea with long N by E swell. Ship pitching easily. At end of watch on course N. E. ¼ N, under steam alone. Steam 45. Revolutions 46.8.

C. S. F. Dearborn
Ensign U. S. N.

From Meridian to 4 P. M.

Fair with light passing fog first hour. Clear and coarse remainder of watch. Gentle breze from East. Overhauling & setting up rigging and rattlines. At 2m set jib & spanker. Sea smooth. Gentle swell from N. E. Bent Flying jib

C. G. Galloway
Lieut U. S. N.

From 4 to 6 P. M.

Clear and pleasant with light breze from East. Smooth sea with moderate swell from North. At 4m set flying jib. At 4½ slowed to six (6) knots. At 4h 59m cast with Sounding Machine in 98 fms and at 5h 5m a second cast in 103 fms, bottom, hard, lead bringing up no specimen. Went full speed at 5m. At 5m Quarters & manned

H. Helfenstein
Lieut U. S. N.

From 6 to 8 P. M.

Clear and pleasant. Light breze from East. Steering a course N. E. ½ N, under steam alone. Steam 50. Revolutions 48.

D. F. Wagner
Lieut U. S. N.

From 8 P. M. to Midnight

Clear with cirro and St clouds. Bright moonlight. Light breze from East shifting to E. N. E at 10h 30m when took in flying and a sail. Smooth sea with moderate N by swell. Ship steady. At end of watch on course N. E. ½ N, under steam alone. Steam 50. Revolutions 48.

C. S. F. Dearborn
Ensign U. S. N.

Examined and found to be correct.

A. T. Wadhams Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to ~~Hong Kong~~ Manila

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	6	1	23.0	N. E. 1/2 N.	N. E. by E.	1			29.9	4	9	9	6	b. c.	cir str	5	S
2	4	6	30.6	"	"	1			29.9	1	9	9	6	"	"	4	"
3	8	1	38.4	"	"	1			29.9	0	4	9	6	"	cirrus	8	"
4	8	1	46.8	"	"	1			29.9	0	4	9	6	"	"	9	"
5	8	1	54.9	"	N. E.	1	0		29.9	1	4	9	8	"	"	4	"
6	4	8	62.4	"	N. E. by E.	2	0		29.9	3	4	9	8	"	"	4	"
7	4	6	70.3	E. 1/2 N.	"	2	0		29.9	6	4	9	8	"	"	6	"
8	8	1	78.9	"	N. E.	2	0		29.9	8	4	9	8	"	cir cum	5	"
9	4	8	86.4	"	"	2			29.9	9	8	0	6	"	cir str cirrus	6	"
10	8	0	94.4	"	"	2			29.9	9	8	0	6	"	"	4	"
11	6	9	1.6	"	"	2			29.9	9	8	1	8	"	cir cirrus	6	"
Noon.	8	0	10.2	"	"	2			29.9	8	8	1	9	"	cir str cirrus	6	"

Course and distance made good since preceding noon by observations, N. E. 1/2 E. 202 knots. tenths.

Position at Noon:
- Latitude by D. R. — N 6 ° 4 ' "
- Longitude by D. R. — E 112 ° 36 ' "
- Latitude by observations of ⊙ — N 7 ° 04 ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 112 ° 52 ' "

Position at 8 a. m.
- Latitude by D R — N 7 ° 02 ' "
- Longitude by Chro do do do — E 112 ° 21 ' "

Position at 8 P. M.
- Latitude by D R — N 6 ° 54 ' "
- Longitude by Chro do do do — E 113 ° 52 ' "

Current during the time, knots .95 tenths per hour, setting to the N. E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at 7.19 / 3.57 " N. E. 1/2 N. / East — E 1 ° 28 ' / E 1 ° " "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 12 tons 320 lbs.

Coal remaining on hand at Noon, 78 " 2110 "

P. M.																	
1	4	3	11.5	E. 1/2 N. East	N. E.	3			29.9	4	8	1	8	0	2	6	4	9	b c.	cir cum	5	S
2	8	0	26.6	"		3			29.9	1	8	1	8	0	2	6	4	9	"	"	3	"
3	8	2	34.8	"	N. E. by E.	3			29.8	9	8	1	8	0	2	6	4	9	"	"	3	S.
4	8	0	42.6	"	"	3			29.8	9	8	1	8	0	2	6	4	9	"	"	3	"
5	6	6	49.2	S. E. by S.	"	3			29.8	8	8	0	8	0	2	4	4	9	"	"	2	"
6	1	1	50.3	"	"	3			29.8	8	8	0	8	0	2	4	4	9	"	"	2	"
7	4	9	55.2	East	E. by N.	3			29.9	0	8	0	7	0	2	4	6	9	"	cir str	5	"
8	8	3	66.5	"	N. E. by E.	3	0		29.9	2	8	0	7	0	2	4	6	9	"	cir cum	5	"
9	2	4	73.9	"	"	3	0		29.9	6	8	0	7	0	2	4	6	9	"	"	5	"
10	6	9	80.8	"	N. E.	3			29.9	4	8	0	8	0	2	4	6	9	"	"	4	S.
11	4	3	88.1	"	N. E. by E.	3			29.9	4	8	1	8	0	2	4	4	9	"	str	5	"
Mid.	4	5	95.6	"	"	3			29.9	4	8	0	8	0	2	4	6	9	b. c. y.	"	3	"
	4	8	3.4	"	"	3			29.9	4	8	0	7	0	2	4	6	8	"	"	2	"

under the command of Commander T. F. Jones, U. S. Navy,

Wednesday January 5th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A M.

January clear, mild and pleasant. Light breeze from N. E. by E. Light cir-cumu clouds passing over from East. Steam, alme. Sea smooth. Guttle from from N. E. Moon set at 1h.

C. D. Galloway
Lieut U. S. N

From 4 to 8 A M

Fair, pleasant weather with local flying scud till after sunrise. Light breze from N. E. and N. E. by E. Sea smooth. At 5h changed course to E. by N, Patent log reading 0.3 knots. Steam, alme, six boilers.

H. L. Gearing
Lieut U. S. N.

From 8 A. M. to Meridian

Clear, pleasant weather. Light breeze from N. E. Smooth sea. At 9:35 mustered at quarters. Exercised 1st, 2d and 3d Divisions at Great Guns. Powder Division at Rifles. Engaged scraping bright woodwork and squaring rattlins. At 8:10 set fore and aft Sail, gaff topsail and cruizzen topmast Stay Sail. Steaming on course E. by N. Steadied. Ptoolatkins 48.

B. L. Gearing
Lieut U. S. N

From Meridian to 4 P. M.

Partly clear with cir-cumu clouds. Bright and pleasant. Gruttle breze from N. E. first part shifting to N. E by E latter part. Smooth to moderate sea At 12h changed course to East P L 11.5. At 2h took in fore and aft Sail. Exchanged colur Salutes with an English bark standing to S. and E. Squaring rattlins on fore cruzzen and fore and main topmast rigging. Blacking rigging. At end of watch in course East, under steam alme. Steam 49 Revolutins 48.2

Ensign U. S. N.

From 4 to 6 P M.

Fair and pleasant. Light breze from N. E. by E. and E. by N. Sea smooth. At 4h 4m changed course to S. E. by S. Patent log 49.2. Set Jib and Spanker. At 5h 5m changed course to East, Patent Log 55.2. At 5h 40m mustered at quarters.

C. D. Galloway
Lieut U. S. N.

From 6 to 8 P M.

Clear, pleasant weather, Gruttle breze from N. E by E. Smooth sea Moonlight. Steam, alme. Course East.

H. L. Gearing
Lieut U. S. N.

From 8 P.M. to Midnight

Hazy, pleasant weather. Gruttle breezes from N. E and N. E by E At 8h 10m set fore and aft Sail. Took it in at 9:25. End of watch ship under Steam alme on course East. Moonlight. Steam 49. Revolutins 48.

B. L. Gearing
Lieut U. S. N

Examined and found to be correct.

A. P. Wadhams Lieut U. S. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to ~~Hong Kong~~ Manila

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	6	10.4	East	N. E. by N.	3-4			29.96	78	78	76	74	c.g.	cumu	0	
2	8	4	19.1	"	"	4			29.93	78	74	74	74	b.c.	"	2	"
6	8	8	27.5	"	"	3-4			29.91	78	74	74	74	"	cumulo	5	"
4	8	8	36.0	"	"	3			29.91	78	78	76	74	c.	cumulus	0	"
5	8	4	44.4	"	N. E.	4			29.93	80	74	74	79	r.g.	cumulus	0	"
6	8	5	52.9	"	E. by N.	3			29.95	80	79	76	80	b.c.g.	cumulus	1	"
04.1158 N 6°46 7	8	1	61.0	"	East	4-6			29.99	79	78	76	79	o.c.g.	"	0	"
2115 8	5	7/8	67.7/8	N. E. by N.	N. E.	3			30.00	79	78	76	81	N.	"	0	"
9	6	9	76.4	"	North	4	0		30.01	80	79	76	81	cir.	cirr	0	"
10	6	9	82.3	"	"	4	0		30.02	81	80	76	81	"	"	0	"
11	5	6	87.9	"	"	4	0		30.01	81	81	76	81	b.c.	"	3	"
Noon.	6	9	94.8	"	"	4	0		29.99	82	81	76	81	"	cir.cum	2	"

Course and distance made good since preceding noon by observations, E 1/2 N 143 knots tenths.

Position at Noon:
- Latitude by D. R. — N 24 ° 14 ' "
- Longitude by D. R. — E 115 ° 42 ' "
- Latitude by observations of ⊙ — N 24 ° 20 ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 115 ° 45 ' "

04.1158

Position at 8 a. m.:
- Latitude by D.R. — N 24 ° 00 ' "
- Longitude by Chro 00 00 00 — E 115 ° 24 ' "

Position at 8 P. M.:
- Latitude by D.R. — N 24 ° 59 ' "
- Longitude by Chro. P.M. 00 00 — E 116 ° 11 ' "

Current during the time, knots 4 tenths per hour, setting to the N. by E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 150 "

Coal consumed during the preceding 24 hours, 12 tons 1220 lbs.

Coal remaining on hand at Noon, 66 " 890 "

P. M.	Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
	1	6	0	100.8	N. E. by N.	N. by W.	4			29.96	82	82	74	81	b.c.	cir.cum	2	
	2	4	1	7.9	"	N. by E.	4			29.93	82	81	74	81	"	"	2	"
	3	6	1	14.0	"	"	4			29.90	83	82	74	81	"	cir cum	3	"
	4	6	3	20.3	"	"	4-6			29.90	82	81	74	81	o.c.g.	cum	0	"
	5	1/2	5	25.4	N. by E. 1/2 N.	N. E.	4-5			29.91	81	80	74	81	c.g.	"	0	"
	6	5	8	31.2	"	N. by E.	4-5			29.93	82	81	74	80	"	cir	0	"
	7	5	5	36.7	"	N. E. by N.	4-5			29.95	82	80	74	80	b.c.	cir cum	3	"
	8	5	5	42.2	"	"	4-5			29.96	82	81	74	80	"	"	6	"
	9	4	2	46.4	N. E. 1/2 N.	N. by E.	4			29.98	82	81	74	80	"	"	4	"
	10	5	5	52.0	"	"	4			29.98	82	81	74	80	"	"	6	"
	11	5	1	58.1	"	"	5			29.99	81	80	74	81	"	"	5	"
	Mid.	5	4	63.5	"	"	5			29.97	79	80	74	80	b.c.	cum	0	"

under the command of Commander T. F. Jewett, U. S. Navy,

Thursday January 6th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Latter part A. M.

Generally cloudy with cumulus and wind clouds. Squally first hour. Occasional showers light. Gentle to moderate breeze N.E by N. Moderate sea and swell from N.E. At 12m Set fore and aft sail at end of watch, on course East, under fore and aft sail and steam. Steam to Resolution at 1.

A. F. Dogerty
Ensign U. S. N.

From 4 to 8 A. M.

Generally overcast with frequent rain squalls. Wind light to fresh from N.E. to East and South. Set and took in fore and aft sails as wind permitted. At 7h 2m changed course to N.E by N, patent log reading 62. At 7h 5m got cast Thomsons Machine 60 fms, no bottom. At end of watch under steam alone.

Ed. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian

Cloudy with light passing showers first two hours and clearing at end of watch. Moderate wind and sea from East. At 9m 30s quarters for inspection. Divisions exercised as follows: 1st Rifles, 2d Boat Guns, 3d Rifles. Powder, Rifles, Marines Manual, Engs, Gatling Gun. Tried the fittings for Gatling Gun in Steam Cutter. Frederick Clark, Lds, was placed in confinement, on bread and water for three days for wilful and positive disobedience of orders. Steam alone, six boilers. Course N. E by N.

H. L. Jeanings
Lieut U. S. N

From Meridian to 4 P. M.

Cloudy. Pleasant weather until last half hour when squally, wind shifting steadily at 3.55 to East blowing fresh. Moderate breeze from N by E to N by E remainder of watch. Moderate sea with long swell. At 12.30 set fore and aft sail took it in at 1.30. Steering a course N. E by N, under steam alone at end of watch.

F. Evans
Lieut U. S. N

From 4 to 6 P. M.

Cloudy and squally with passing showers. Moderate to stiff breeze from N.E and N by E. Moderate sea from N by E by which ship pitched uneasily. At 4h 8m slowed to, one bell to get cast with Lieut Thomsons Machine. No bottom at 700 fms. Went ahead at bells at 4h 4m. At 4h 20m changed course to N.E ½ N P.L 226.1. At 4h 40m changed course to N.E, P.L. 236. At end of watch on course N.E, under steam alone. Lookouts for watch at 5h 0m Steam to Resolution at 5.

H. C. Fournier
Ensign U. S. N.

From 6 to 8 P. M.

Fair and pleasant. Moderate breeze from N.E by N. Ship pitching moderately into a short head sea. At 7h 30m got cast Thomsons Machine 45 fms, no bottom. Moonlight.

Ed. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight

Fair and pleasant with bright moonlight till last ten minutes when a heavy shower of rain. Moderate to stiff breeze from N by E. with moderate sea. At 8h 7m changed course to N.E ½ N. At 11h 10m made fore and aft sail, taking in sail again at 11h 40m. Sounded at 10h 0m and 12h 0m in over 100 fms, no bottom.

H. L. Jeanings
Lieut U. S. N

Examined and found to be correct.

A. T. Wadhams
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Sea making passage to ~~Hong Kong~~ Manila

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	1	67.6	N. E½. N.	N. E.	2-4	0		29.92	78	79	76	79	b.c.r.q.	cumb.	0	N
2	4	4	72.0	"	"	3-4	0		29.92	78	79	76	78	"	"	0	"
3	4	9	46.9	"	"	3-4	0		29.91	78	78	76	78	b.c.q.r.	cum.	4	"
4	5	0	81.9	"	"	3-6	0		29.91	79	78	76	78	"	"	3	"
5	4	0	85.1	"	N. E. by N.	4			29.92	79	79	76	80	b.c.	cir. cum.	3	"
6	4	9	90.0	"	N. N. E.	4			29.93	79	79	76	80	"	"	3	"
7	4	5	94.5	"	"	4			29.95	80	80	76	80	"	"	2	"
8	5	2	99.9	"	"	4-5			29.99	80	80	76	80	c.q.r.	cum. nimb.	0	"
9	4	9 2	04.8	N. E. by N.	"	4-5			30.01	80	80	76	81	"	"	0	"
10	5	8	10.6	"	N. E. by N.	4			30.00	80	80	76	81	b.c.q.r.	"	1	"
11	5	0	15.6	"	"	4			30.00	80	80	76	81	"	"	1	"
Noon.	5	0	20.6	"	"	3			29.97	80	80	76	81	b.c.r.q.	"	1	"

Course and distance made good since preceding noon by observations, N. E 3/4 N. 115 knots tenths.

04 11 58 Position at Noon:	Latitude by D. R.	N	8 ° 58' "
	Longitude by D. R.	E	114 ° 06' "
	Latitude by observations of ⊙	N	° ' "
	Longitude by chronometer from Forenoon Observations of ⊙	E	116 ° 55' "
Position at 8 a. m.	Latitude by D R	N	8 ° 36' "
	Longitude by Chro da da da	E	116 ° 42' "
Position at 8 P. M.	Latitude by D R	N	9 ° 25' "
	Longitude by Chro da da da	E	114 ° 12' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 3 54 " " N. N. E. ½. E E 1 ° 58' "

Water expended during the preceding 24 hours, ~~120~~ gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1080 "

Coal consumed during the preceding 24 hours, 12 tons 1450 lbs.

Coal remaining on hand at Noon, 53 " 1680 "

P. M.														
1	2	6	24.1	N. N. E. ½. E.	N. by E.	3	0		29.94	80	79	76	b.c.	cir. cum. cir.	1	N
2	3	9	28.0	"	N. by W.	4	0		29.91	80	80	76	"	cum.	5	"
3	4	1	32.1	"	"	3-4	0		29.90	80	80	76	b.c.q.r.	nimb.	5	"
4	4	2	36.3	"	N. by E.	3	0		29.88	80	80	76	c.r.	"	0	"
5	4	3	40.6	"	"	4			29.91	81	81	76	b.c.	cir. cum.	3	"
6	4	1	44.7	"	"	4			29.94	81	81	76	"	"	3	"
7	4	0	48.5	"	N. N. E.	4			29.96	82	81	76	"	"	6	"
8	4	1	52.1	"	"	4			29.94	82	81	76	"	"	8	"
9	4	4	56.5	"	"	4			29.98	81	80	76	"	cir. cum.	2	"
10	4	5	61.0	"	"	4			29.99	81	80	76	"	"	6	"
11	4	6	65.8	"	"	4			29.99	81	80	76	"	"	4	"
Mid.	4	9	66.4 71.3	N. E. ½. N.	"	4			29.99	81	80	76	"	"	5	"

under the command of Commander T. F. Jewett, U. S. Navy,

Friday January 2nd, 1857.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences with Cutie & A. M.

Cloudy, disagreeable weather with frequent heavy showers of rain accompanied by fresh squalls. Wind unsteady in force & direction, falling after shower had passed & then blowing steady & fresh until next squall. Squalls lasting from five to thirty minutes. Wind changing direction suddenly & frequently to all points between North & East settling to N.E. and blowing fresh. At 2:30 closed engines to 46 Revolutions. At 2 & 4 got casts of lead no bottom at 130 fms. Steering a course N.E. by N. under steam alone. Moderate sea with long deep swell from N.E.

J. Waring
Lieut U.S.N.

From 4 to 8 A. M.

Generally cloudy rain squalls last hour. Winds circumm & cumm & variable. Moderate to stiff breeze from N.E. by N. & N.N.E. Moderate broken sea with short deep swell from N.N.E. Ship working about uneasily. Got casts of lead each hour, no bottom at 100 fms. At end of watch on course N.E. by N. under steam alone. Engines going 46 turns. Steam 54 Revolutions.

A.C. Longstreet
Ensign U.S.N.

From 8 A. M. to Meridian

Generally overcast with passing rain squalls. Gentle to moderate breeze from N.E. by N. Ship pitching with a short head sea. Got casts with Thomson Machine each hour, no bottom 150 fms. At 8:00 changed course to N.E. by N. Steaming 46 turns.

C. Galloway
Lieut U.S.N.

From Meridian to 4 P. M.

Clearing & clear & pleasant until 2:30 when a heavy rain shower. Passing rain rest of watch. Moderate to gentle breeze from N. by E. to N. by W. Moderate decreasing sea. At At 12" changed course to N.N.E. 1/2 E., patent log reading 215. At 2:00, discontinued boilers 1 & 3 from engines for distilling and at 2:00 beginning distilling into tanks. Steam alone, four boilers, at end of watch. Average steam 52 lbs. Revolutions 33. Sounded every hour in, over 100 fms, no bottom.

N. Holcomb
Lieut U.S.N.

From 4 to 6 P. M.

Clear cast. Moderate breezes from N. by E. Moderate sea. Steering a course N.N.E. 1/2 E. At 5:50 quarters. At 6: ordered fire alarm. All steam in 2 min 20 sec. Steam 52. Revolutions 36.

P. Craig
Lieut U.S.N.

From 6 to 8 P. M.

Generally clear, bright moonlight, cirrocumm & str clouds. Moderate breeze from N.N.E. Moderate swell from North with broken sea. Ship pooling & pitching uneasily. At end of watch on course N.N.E. 1/2 E. under steam alone. Steam 48.

A.F. Dennistoun
Ensign U.S.N.

From 8 P. M. to Midnight

Fair & pleasant. Gentle to moderate breeze from N.N.E. & N.E. At 8:30 stopped distilling & used steam for engine. At 11:00 changed course to N.E. 1/2 N. At 11:00 & 12:00 got casts. Thomson's Machine no bottom 150 fms. Bright moonlight. Ship pitching into short head sea.

C. Galloway
Lieut U.S.N.

Examined and found to be correct.

N. Warhams. Lieut Navigator.

LOG of the UNITED STATES Steamer "Esex", 3d Rate,

At Sea making passage to ~~Hong Kong~~ Manila

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	5	3	26.6	N. E. 1/2 N.	N. E. by N.	3	0		29.98	81	78	68	0	b. c.	cirrus	2	N.
2	5	2	82.3	"	"	3	0		29.96	81	78	68	0	"	"	1	"
3	6	1	88.4	"	"	2	0		29.94	81	78	68	0	"	"	1	"
4	6	2	94.6	"	"	2	0		29.94	81	78	68	1	"	"	1	"
09.1224 N 10°	5	6	100.6	"	"	3	0		29.95	81	78	68	1	o. c.	cumulus	0	"
	6	1	6.7	"	N. E.	3	0		29.94	81	78	68	1	b. c.	cirrus	2	"
E 117.44'	7	6	12.9	"	"	3	0		30.00	82	78	68	1	"	cir-cum	1	"
	8	5	7	18.6	"		3	0	30.01	82	78	68	1	"	"	2	"
	9	5	2	53.9	"	N. E. by N.	3		30.03	82	78	68	1	"	cir-cum	1	N.
	10	5	6	29.3	"	"	3		30.04	82	78	68	1	"	"	3	"
	11	6	0	34.6	"	"	3		30.03	82	78	68	1	"	"	4	"
	Noon.	6	2	41.2	"	"	3		30.02	82	78	68	1	"	"	1	"

Course and distance made good since preceding noon by observations, N. E. 3/4 N. 11.0 knots tenths.

Position at Noon:
- Latitude by D. R. — N 10° 32 "
- Longitude by D. R. — E 118° 19 "
- Latitude by observations of ⊙ — N 10° 24 "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 118° 11' "

09.1224

Position at 8 a. m.:
- Latitude by D.R. — N 10° 10' "
- Longitude by Chro do do do — E 117° 59' "

Position at 8 P. M.:
- Latitude by D.R. — N 11° 03 "
- Longitude by Chro P.M. do do — E 118° 30' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 7 23 " N. E. 1/2 N. E 1° 24' "

Water expended during the preceding 24 hours, 400 gallons.

Water distilled during the preceding 24 hours, 500 "

Water remaining on hand fit for use at Noon, 1180 "

Coal consumed during the preceding 24 hours, 12 tons 610 lbs.

Coal remaining on hand at Noon, 41 " 1070 "

P. M.														
1	4	9	46.5	N. E. 1/2 N. N. E. 3/4 E.	N. N. E.	3		29.98	81	82	74	68	1	b. c. cum	3	N.
2	5	6	52.1	"	"	3		29.96	81	82	74	68	1	"	"	2	"
3	5	7	57.8	"	"	3		29.94	81	82	74	68	1	"	"	2	"
4	5	4	63.2	"	"	3		29.94	81	82	74	68	1	"	"	1	"
5	5	0	68.2	"	N. by E.	3	0	29.94	82	81	74	68	1	c	"	0	"
6	5	3	73.5	N. E. 1/2 N.	"	3	0	29.99	81	80	74	68	1	"	"	0	"
7	5	1	78.6	"	N. N. E.	3		30.00	81	80	74	68	1	b. c.	cumulus	2	"
8	5	3	83.9	"	"	3		30.02	81	80	74	68	1	"	"	6	"
9	2	6	86.9	"	"	3-2		30.04	81	80	74	68	1	"	cirrus	1	"
10	2	0	90.0	E. 1/2 S.	"	2		30.04	80	80	74	68	1	"	"	4	"
11	2	3	93.7	N. E. 1/2 N.	N. E. by N.	4-3		30.04	81	81	74	68	1	"	"	4	"
Mid.	6	0	1.5	"	"	3		30.04	82	81	74	68	1	"	"	6	"

under the command of Commander T. F. Jewett, U. S. Navy,

Saturday January 8th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutter at A. M.

Cloudy and pleasant. Gentle to light breeze from N. E. by N. Obscured moonlight. Moderate sea. Sounding every hour in, over 100 feet with no bottom. Steam alone, six boilers. Course N. E. ½ N.

N. C. Higgins.
Lieut U. S. N.

From 4 to 8 A. M.

Fair, pleasant weather. Over cast. Gentle breeze from N. N. E. Short, deep swell from N. N. E and N. by W. Extreme pitch 12°. Extreme roll 25°. Steering a course N. E. ½ N. under steam alone. Got casts of lead, at 5:, 6: and 7:, no bottom at 140 fms.

B. Wadleigh
Lieut U. S. N

From 8 A. M. to Meridian

Partly clear, bright and pleasant. Cumulous clouds. Gentle breeze from N. E by N. Moderate sea with short, deep heavy swell from North to which ship knocked about considerably. On course N. E. ½ N, under steam alone. Steam 50. Revolutions 40.

A. T. Mahan
Ensign U. S. N.

From Meridian to 4 P. M.

Fair and pleasant. Moderate breeze from N by E. At 12m changed course to N by E ½ E. Ship pitching into a moderate head sea. Keeping watch under steam alone. Got casts lead Thomson's Machine each hour 150 fms no bottom.

A. K. Galloway
Lieut U. S. N

From 4 to 6 P. M.

Cloudy and pleasant. Gentle breeze from North. Moderate sea with occasional heavy swells to which ship pitching forcibly. At 5m quarters. At 5m changed course to N. E ½ N. Steam alone 6 boilers. Sounded at 5m 36s in over 100 fms, no bottom.

N. C. Higgins.
Lieut U. S. N.

From 6 to 8 P. M.

Cloudy, pleasant weather. Gentle breeze from N. N. E. Short, deep swell from N by E. Under steam alone steering N. E ½ N.

B. Wadleigh
Lieut U. S. N

From 8 P. M. to Midnight

Partly clear, bright moonlight. Pleasant. Cumulous clouds. Light to moderate breeze from N. N. E and N. E by N. Moderate to heavy short, deep swell & sea from North. Moderating later part. At 9h changed course to E. N. E. P. L 88.0. At 9h 30m stopped ascertaining revolutions boilers 1 to 3 for steaming. Set fore and aft sail. At 10h 30m changed course to N. E. ½ N. P. L 93.7. Took in fore and aft sails. At end of watch on course N. E. ½ N. under steam alone. Steam 54. Revolutions 36.

A. T. Mahan
Ensign U. S. N.

Examined and found to be correct.

A. T. Mahan Lieut U. S. N Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At Sea making passage to ~~Hong Kong~~ Manila

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	5	1	6.6	N. E. ½ N.	N. E. by N.	3			30.008	1	82	76	81	bc	cir cumu	4	H
2	5	2	11.8	"	"	3			29.988	08	1	76	81	"	"	3	"
3	5	0	16.8	"	"	3			29.948	08	1	76	81	"	"	5	"
4	2	9	18.6	N. E. by N.	"	3-2			29.968	08	1	76	81	"	"	5	"
5	4	2	25.4	"	N. N. E.	2	1	S	29.988	1	80	76	81	"	"	8	"
6	4	3	30.0	"	"	2	1	S	30.008	1	80	76	81	"	"	2	"
7	4	5	34.5	"	"	3	1	S	30.028	1	80	76	81	"	"	4	"
8	5	3	39.8	"	N. E. by E.	3	1	S	30.058	1	84	78	81	"	"	1	"
9	4	5	44.3	"	N. N. E.	3			30.058	28	1	76	81	"	cir	5	"
10	4	6	48.9	"	"	3			30.058	38	84	78	81	"	"	5	"
11	4	1	53.0	"	"	3			30.058	38	84	78	81	"	"	4	"
Noon.	2	0	56.2	E. N. E.	"	3			30.038	48	84	78	81	"	"	3	"

Course and distance made good since preceding noon by observations, N. E. by N. 98 knots tenths.

04.1224 Position at Noon:
- Latitude by D. R. — N 11 ° 5 ' "
- Longitude by D. R. — E 119 ° 20 ' "
- Latitude by observations of ⊙ — N 11 ° 48 ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 119 ° 04 ' "

Position at 8 a. m.
- Latitude by D R — N 11 ° 34 ' "
- Longitude by Chro do do do — E 118 ° 59 ' "

Position at 8 P. M.
- Latitude by D R — N 12 ° 15 ' "
- Longitude by Chro P M do do — E 119 ° 36 ' "

Current during the time, knots 6 tenths per hour, setting to the S. W. by W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 3 25 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, ~~8 8 3~~ "

Coal consumed during the preceding 24 hours, 15 tons 2070 lbs.

Coal remaining on hand at Noon, 25 " 1240 "

P. M.																	
1	5	6	61.8	E. N. E.	N. N. E.	3	4		29.968	28	1	76	81	b.c	cir-strat	Cu-N	
2	6	4	68.0	"	"	3-4			29.958	28	1	76	81	"	"	4	"
3	4	2	45.0	"	"	4			29.958	28	1	76	81	"	"	5	"
4	3	2	47.2	N. N. E.	"	4			29.948	38	2	76	81	"	"	5	"
5	5	0	85.8	"	"	3			29.948	18	2	76	81	"	"	4	"
6	4	4	90.5	"	N. E. by N.	3-4			29.988	18	2	76	81	"	"	3	"
7	4	4	95.2	"	N. E. by E.	3-4	1	5	30.008	18	2	76	81	"	cir-cum	2	"
8	4	3	99.5	"	"	3-4	1	5	30.018	18	2	76	81	"	"	3	"
9	4	5	4.0	Hazed	N. E.	3			30.018	28	1	76	81	"	"	3	"
10	5	0	9.0	"	"	3			30.028	28	1	76	81	"	"	5	"
11	2	5	14.3	N. N. E. ½ E. Hazed	"	3			30.018	28	1	76	81	"	"	4	"
Mid.	5	4	19.7	"	"	3			30.008	1	80	76	81	"	"	4	"

under the command of Commander T. F. Jewett, U. S. Navy,
Sunday January 9th, 1859.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences with little A. M.

Clear and pleasant. Gentle breeze from N. E by N. Moderate sea from N. N. E. Ship pitching deeply at times. Bright moonlight. At 2m. A. M. changed course to N. E by N. Got casts Thomsons Machine each hour 100 fms no bottom.

C. P. Galloway
Lieut U. S. N

From 4 to 8 A. M.

Clear first two hours with moonlight till sunrise. Sounding over part of watch. Light to gentle breeze from N. N. E and N. E by N. Moderate head sea & swell, ship pitching easily. At 6m. A. M. sighted two high clumps of land South easterly bearing S. E by E. & E. At 7. lost sight of this land shortly after sunrise. Steam alone, six boilers. Course N. E by N. Sounded every hour in over 100 fms, no bottom.

H. H. Gearing
Lieut U. S. N

From 8. A. M. to Meridian.

Pleasant weather, partially cloudy sky. Gentle breeze from N. N. E. At 9.30 A. M. sent to quarters. At 9. A. M. called all hands to muster & read Articles for the better government of the Navy. By order of Fmdg Officer placed F. A. Clarke Ds, from confinement. By order of Fmdg Officer, confined Lieut C. Lee in double irons for three days for maliciously leaving hawser holes open, also placed F. A. Clarke, Ds, under double charge to await further action in his case. Land in sight, all the south bearing at noon from S. S. E. to S. E 1/4 E. At 11.50 A. M. set fore & aft sails & stood on course to E. N. E. At 11.55 A. M. set clock ahead 4 minutes. Got casts of lead each hour, no bottom at 110 fms.

B. F. Waring
Lieut U. S. N

From Meridian to 4 P. M.

Partly clear cool airy weather. Bright & warm. Gentle to moderate breeze from N. N. E. Moderate sea with deep short heavy swell from N by E. Ship pitching & pitching unpleasantly. Under fore & aft sails till 3h. 15m. P. M. when changed course to N. N. E. & E. 1/2 E. & took it in. Land in sight on starboard bow & beam & quarter. Sounding each hour. At 3 got bottom at 16 1/2 fms. A trail of wood on course N. N. E. Under steam alone. Steam 2 P. M. stopping to

A. F. Dockray
Ensign U. S. N

From 4 to 6 P. M.

Cloudy & pleasant. Gentle breeze from N. N. E. Moderate sea from N. N. E. Land in sight on starboard bow & beam. At 5h. sent down T. G. Masts. At 5m. P. M. got casts Thomsons Machine 69 fms, fine gray sand, broken shells. At 6h. P. M. no bottom at 180 fms.

C. P. Galloway
Lieut U. S. N

From 6 to 8. P. M.

Fair & pleasant weather with gentle to moderate breeze from N. E by E. Short deep swell, ship pitching considerably. Moonlight. Sounded at 7h. & 8h. in over 100 fms, no bottom. Steam alone. Course N. N. E.

H. H. Gearing
Lieut U. S. N

From 8 P. M. to Midnight.

Clear pleasant weather. Gentle breeze from N. E. Bright moonlight. At 8.00 changed course to North. At 10. 10 N. N. E. 1/2 E. & at 10.25 to N. At 9.00 sighted high land bearing N. E by E. & E. 1/4 E. At 9.20 it bore S. E 1/2 E. At 8.10 set fore & aft sails, took it in at 10 P. M. & set it again at 10.30. Under steam & fore & aft sails at end of watch steering a course North. Got casts of lead every hour, no bottom at 105 fms. Short deep swell from N. N. E. Ship pitching deeply at times.

B. F. Waring
Lieut U. S. N

Examined and found to be correct.

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Sea making passage to ~~Hong Kong~~ Manila

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	1	24.8	~~N.~~	N. E.	3-4			30.01	80	80	76	80	b.c	cum-str	3	h
2	5	6	30.6			3-4			30.00	80	80	76	80	"	"	2	"
3	4	6	34.1	N.E ½ N.	N. E	3-4			30.00	80	80	76	80	"	"	3	"
4	6	2	43.3	"	East	3			29.99	81	80	74	80	"	cir-str	6	h
5	5	8	49.1	"	N. E	3			30.00	81	81	74	80	"	cir-cum-str	4	h
6	6	2	55.8	"	"	3			30.00	81	81	74	80	"	cir-str	2	h
7	2	1	62.9	"	"	3			30.01	81	81	74	80	"	cir-cum	1	"
8	2	4	70.8	"	"	3			30.05	82	81	74	80	"	"	2	"
9	2	4	74.4	"	N. N. E	3			30.06	83	82	74	80	"	"	2	"
9-1130																	
M.23																	
10	6	1	83.8	"	N. E	4-5			30.06	82	81	74	80	"	"	6	h
11	6	5	89.4	N. E													
12-0																	
Noon.	1	5	94.9	N. E ½ E	E. by N	5-7			30.05	82	81	76	80	"	"	5	h
	1	5	99.2	N. E ½ E													
	2	9	04.6	N. E ½ E													
	1	5	94.6	N. E	E. by N	5-7			30.04	81	80	76	80	"	"	4	"

Course and distance made good since preceding noon by observations, N. N. E 3/4 E 12 1 knots. tenths.

Position at Noon:	Latitude by D. R.	N 13° 36' "
	Longitude by D. R.	E 120° 25' "
9 1130	Latitude by ~~observation~~ Bearings of E. Bat on Arayat Sad boro's 27 5/6	N 13° 31' "
	Longitude by chronometer from Forenoon Observations of ☉ E. of Little Lake Talaoto 9 2/6. 9	E 120° 11' "
Position at 8 a. m.	Latitude by D R	N 13° 15' "
	Longitude by Chro ditto ditto ditto	E 119° 53' "
Position at 8 P. M.	Latitude by D.R. ditto ditto ditto	N 14° 09' "
	Longitude by Chro Ditto ditto ditto	E 120° 32' "

Current during the time, knots 6 tenths per hour, setting to the W. S. W.

Variation of the Compass by Amplitude ☉ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ☉ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ☉ observed at " ° ' "

Variation of the Compass by Azimuth ☉ observed at 8h 02m " N. E ½ N. E 1 ° ' "

Water expended during the preceding 24 hours, 255 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 600 "

Coal consumed during the preceding 24 hours, 16 tons 560 lbs.

Coal remaining on hand at Noon, 9 " 680 "

P. M.																	
1	2	4	94.3	N. E 3/4 E	East	4-5	0		30.04	82	81	74	80	b.c.q.	cum	4	h
	1	5	98.8														
	1	6	103.1	N. E ½ N.													
2	3	9	8 3	"	East	4	0		30.01	82	82	74	80	bc	"	4	"
	3	6	6 9														
3	4	8	11.4		E. by N	4	1		30.00	82	81	74	80	"	"	3	"
	1	1	12.5	E. by E													
4	5	4	16.9	N. N. E.			1		30.00	80	79	76	80	b.q.	"	2	"
5	8	1	24.9	"	East	4-5			30.02	80	79	76	80	"	"	2	"
6	5	9	30.3	N. N. E.	E. by E	4-5			30.04	80	79	76	80	b.c.	"	1	h
7	4	9	35.0	N. E. by E	N. E	4			30.04	80	79	76	80	"	"	4	"
8	5	5	40.5	N. E.	"	4			30.04	79	79	74	80	"	"	4	"
9	6	2	46.8	N. N. E ½ E	E by N	4-4			30.04	79	79	74	80	"	"	6	"
10	6	5	52.3	N. E by N	E by E	4-4			30.04	78	78	74	80	b.c.	"	2	"
11	6	4	58.0	N. E ¼ E	"	4	3		30.04	78	78	74	80	"	"	2	"
Mid.	6	2	64.2	"	E. N. E	3-4			30.04	78	77	74	80	"	"	2	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday January 10th, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends at A. M.

Partly clear with cumulus and cirro stratus clouds. Bright moonlight. Gentle to moderate breezes from N. E. first part, shifting 3 hours to East. At 2 A. M. changed course to N. E. ½ N. P. L. 95. 2. Hard dark heavy swell from N. N. E. to which ship pitching deeply at times. At end of watch on course N. E. ½ N. under steam and fore and aft sail. Sounding each hour. No bottom at 45 fms. Steam 53. Revolutions 44.

A. F. Jechnitz
Ensign U. S. N.

From 4 to 8 A. M.

Fair and pleasant. Gentle breeze from N. E. by N. E. ½ N. E. Took in fore and aft sails. At daylight sighted Mindoro Island from ½ point on starboard bow to 2 points abaft beam. At 6 A. M. sighted Lubang Island two points on port bow. Course N. E. ½ N. Steam alone. Smooth sea. Lost sight of land about 5 o'clock. Took cast to Thomson's Machine at 4 and 5 o'clock no bottom 150 fms. At end of watch N. end of Salavita Island bore N. E. ½ E.

E. D. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian

Fair and pleasant weather. First hour gentle breeze from N. N. E. At 9 A. M. wood came on board from N. E. hauling during watch to E. by N. pairing a moderate sea. At 9.30 A. M. Quarters. Cleared at 9.40 A. M. At 10 A. M. called all hands and sent down lower and topsail yards. At 11 A. M. changed course to N. E. ½ E. patent log N. E. ½ E. At 11.20 N. E. ¾ E. patent log 9. 4. Under steam alone, six boilers. Mindoro 20 to Lubang Islands in sight. At 12 M. found end of Cape Calavite bore E. ¼ S. Sharp peak on Lubang Island bore N. N. E.

H. C. Seaming.
Lieut U. S. N.

From Meridian to 4 P. M.

Cloudy, pleasant weather, rain squalls over the land. Moderate to stiff breezes from East. Moderate to fresh breeze from E. N. E. Gay ship through passage between Mindoro and Lubang Islands until 3 P. M. when bore up on course N. N. E. for Manila standing four and aft sail. Changed course at 12.28 to E. N. E. at 2.10 to E. ½ N. at 1.30 to East. at 2.45 to E. N. E. and at 3.14 to N. N. E. Light to moderate sea from Eastward. At 3.50 made Fourteen Islands bearing N. ¼ E.

P. F. Walling
Lieut U. S. N.

From 4 to 6 P. M.

Partly clear with cirro cumulus and stratus clouds. Squally first hour. Moderate to fresh breeze in squalls 1st hour from East. Moderate E. by E. breeze 2d hour. At 5 P. M. changed course to North. P. L. 29. 3. At 5.40 started to send up four topsail yards, finished at 6.20. At 5.45 set foresail, beat to set fore topsail. At 6.45 stuck up main topsail yard. Getting ready to send up main yard. At end of watch on course N. ½ W. under foresail, fore topsail and fore and aft sail and steam. Standing along coast of Luzon for entrance to Manila Bay. Moderate sea from East. Steam 50. Revolutions 44½.

A. F. Jechnitz
Ensign U. S. N.

From 6 to 8 P. M.

Clear and pleasant. Gentle to moderate breeze from N. E. Smooth sea. Moonlight. At 6 P. M. changed course to N. by W. at 6.20 to N. ½ W. at 6.45 took in and furled fore topsail and foresail. Can't furled main topsail. At 7.15 Fortune Island bore abeam distance 7 miles, which lead N. ¾ W. At 7.30 sighted Pyle Caballo bearing N. N. E.

E. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight

Fair and pleasant weather. Moderate to gentle breeze from E. by S. to E. N. E. Light moonlight sea smooth. Standing into Manila Bay. Sick under Care of Steward's Officer. Steering various courses. At 10 P. M. Pula Caballo and Corregidor Lights in range, P. L. 65 5. At 12 Corregidor Light House (Fix) S. 60 W. 5 5/10 Passed three sailing vessels standing out of the Bay. Sounding every 10 to 15 minutes with Coston Machine in 6 to 7 fms bottom. Sands of black mud and black sand. Steam and fore and aft sail. Took in sail at 11.55.

H. C. Seaming
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex 3d Rate,

At Sea making passage to ~~Hong Kong~~ Manila

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	4	4		N. E. by E.	E. N. E.	2			30.09	79	74	76		b.c.	cir-cum	6	S.
2	4	0		"	"	2			30.08	79	78	76		"	"	4	"
3	Steaming into			Anchorage	North	2			30.07	79	76	74		"	"	6	"
4	Ebb			N. by E.	N. by E.	2			30.07	79	76	74		"	"	8	"
5		"		North	"	0-1			30.07	79	76	74		"	"	6	"
6		"		"	Calm	0			30.08	79	76	74		b.c.	cir-	5	"
7		"		N. N. W.	"	0			30.11	79	76	74		b.c.	"	5	"
8		"		"	N. E.	1			30.12	79	76	74		"	"	5	"
9		"		"	"	1			30.13	80	78	76		"	"	6	"
10	Slack			N. W. by W.	"	1			30.14	80	78	76		"	cir-cum	4	"
11		"		W. N. W.	"	1			30.13	80	79	77		"	"	5	"
Noon.		"		"	"	1			30.12	81	80	78		"	"	5	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, ~~280~~ 380 gallons.

Water Distilled during the preceding 24 hours, 380 "

Water remaining on hand fit for use at Noon, 2100 "

Coal consumed during the preceding 24 hours, 8 tons 480 lbs.

Coal remaining on hand at Noon, 1 " 200 "

P. M.											
1	Flood	N. W. by W.	North	1	30.09	83	82	78	b.c.	cir-cum	6	S.
2	"	"	N. W. by W.	1	30.06	83	83	78	"	"	5	"
3	"	"	N. W.	1	30.06	84	83	78	"	"	5	"
4	"	W. N. W.	N. E.	1	30.06	85	84	79	"	"	4	"
5	Slack	E. by S.	E. by E.	1-2	30.06	85	84	79	"	"	6	"
6	Ebb	S. E.	"	1-2	30.09	84	83	78	"	"	6	"
7	"	"	"	1	30.10	83	81	77	"	"	9	"
8	"	"	"	1	30.11	81	80	76	"	"	2	"
9	"	"	"	1	30.11	80	80	76	"	"	6	"
10	"	"	"	1	30.10	80	80	76	"	"	5	"
11	"	S. E. by S.	S. E.	1-2	30.10	79	79	76	"	"	4	"
Mid.	"	E. by S.	"	1-2	30.10	79	79	76	"	"	4	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday January 11th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences with Cutter & A. M.

Clear and pleasant. Light breeze from E.N.E., Yard N. by E. Standing up Manila Bay for anchorage. At 5:05 came to in harbor of Manila with starboard anchor in 5 fms, veering to 25 fms chain. Draft of ship, fwd 12'-0", Amid 13'-11", Aft 15'-2". Hauled fires and started fires in boilers #2 & 4 for distilling. Riding to ebb tide last hour. Bearings at anchorage: Manila Light-N.N.E. 7/8 E., Yard N. by E. 1/4 E., Pasay E.S.E. 7/8 E.

B. F. Dowling
Lieut U. S. N.

From 4 to 8 A. M.

Clear and pleasant. Calm and light airs from N.E. and N. by E. At sunrise hoisted colors, a Russian man-of-war saluted her colors, shortly after which our colors were hauled down. At 6.30 sent up hoisting gallant masts. Hoisted out steam cutter. Received a visit from Health Officer and a visit of courtesy from the Aid of the Captain of the Port. Distilling.

C. F. Preston
Ensign U. S. N.

From 8. A. M. to Meridian

Partly clear with cirro-cumulus and St. clouds. Bright and warm. Light airs from N. E. Riding to last of ebb 1st hour. Slack afterwards. Received an official from H. I. R. M. S. "Vestnik", extending usual courtesies. Cleaned ship. Sent an officer on shore to communicate with U. S. Consul. By order of Judg Officer placed J. Hartel, Ca app 2 C, on bread and water for three (3) days for gross obscenity. Getting ship into harbor trim. At 11.30 U. S. Consul to Manila came on board. Distilling.

A. C. Bruce Storey
Ensign U. S. N.

From Meridian to 4 P. M.

Clear and hot. Calms and light airs from North and N. by E. Tide flood. At 1.30 U. S. Consul left the ship. At 2.30 Judg Officer left the ship to pay official visit to Russian Despatch "Vestnik". At 3.00 Judg Officer returned on board. Issued small stores to crew. Shifted jibs and put covers on fore and aft sails.

C. D. Galloway
Lieut U. S. N.

From 4 to 8 P. M.

Fine, warm and pleasant. Light airs from E.S.E. Riding to ebb tide. Distilling.

H. C. Gearing
Lieut U. S. N.

From 8 P. M. to Midnight

Clear and pleasant. Bright moonlight. Light breeze from S.E. and E.S.E. Ebb tide. Distilling

C. F. Preston
Ensign U. S. N.

Examined and found to be correct.

A. T. Williams Lieut and Navigator.

LOG of the UNITED STATES Steamer "Esek" , 3d Rate,

at Anchor off Manila

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Ships Head						a								
A. M.																	
1	Ebb			E by S.	S. E.	1			30.08	79	78	76		b.c.	cirrus	8	S.
2	"			S E by E.	"	1			30.08	79	78	75		"	"	2	"
3	"			E by N	"	1			30.06	79	78	75		"	"	2	"
4	"			S E	"	2			30.05	79	79	75		"	"	2	"
5	"			"	"	1			30.05	79	79	76		"	"	8	"
6	"			N by E	"	1			30.06	79	79	76		"	"	8	"
7	"			N by W.	Calm	0			30.07	79	79	75		"	"	5	"
8	Flood			N. W. by W	"	0			30.09	79	80	79		"	"	6	"
9	"			N. W. by N.	N. W. by W	1-2			30.12	79	79	78	75	"	circum	8	"
10	"			N. W.	N. W.	1-2			30.13	79	79	78	76	"	"	2	"
11	"			N. W. by W	"	2			30.11	80	79	79	76	"	"	2	"
Noon.	"			W. N. W.	"	2			30.09	80	80	80	76	"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 950 "

Coal consumed during the preceding 24 hours, 1 tons 600 lbs.

Coal remaining on hand at Noon, 34 " 1840 "

P. M.												
1	Flood	N. W.	N. W.	2	30.08	81	80	76	b.c.	cirrus	2	S.
2	"	"	"	2	30.05	81	81	74	"	"	8	"
3	"	"	N. W. by N	2	30.04	82	82	78	"	"	6	"
4	"	"	N. " W.	1-2	30.09	82	82	79	"	"	6	"
5	"	N. W. by N	N. N. W.	2	30.05	85	83	79	"	"	5	"
6	Ebb	North	E. N. E.	2	30.08	82	82	78	"	"	4	"
7	"	N. N. E.	"	2	30.08	83	82	74	"	"	6	"
8	"	E. by S	"	2	30.10	82	81	74	"	"	8	"
9	"	"	S E.	2	30.10	81	80	76	"	str	2	"
10	"	E. S. E.	"	2	30.11	80	80	76	"	"	2	"
11	Slowing	N. N. E.	"	1	30.11	80	82	76	"	"	4	"
Mid.	Flood	East	"	1	30.11	80	80	76	"	"	4	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday January 12th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Latter part A. M.

Partly clear with cir-str clouds. Bright moonlight. Light airs by breeze from S. E. at 12 m. stopped distilling and hauled fires. Riding between wind and ebb tide. No surface current.

A. Lucas Stm

From 4 to 8 A. M.

Cussign U. S. N.

Fair hazy and warm. Calms and light airs from S. by E. Received in Pay Department 4 lbs Beef, 4 lbs Vegetables & 1/3 lbs Bread. Made preparations for coaling. At 5 m. ship swinging head to W.

E. Galloway

Asst Eng. U. S. N.

From 8 A. M. to Meridian

Fair warm and pleasant weather. Light breeze from N. W. Ship riding to flood tide and wind. At 9 o. lighter of coal came alongside and discharged. Received on board 35 48/240 tons. At 10 m. Summary Court for the trial of F. A. Parker Ldsm convened and adjourned at 10 5 to await the action of the convening authority. Received an official visit from the Fleet Surgeon of the Station and Corvette Stephanie. Scraped topmasts. Setting down main rigging. Pumped out ship.

N. E. Gearing

Lieut U. S. N.

From Meridian to 4 P. M.

Clear and warm. Light breezes from N. W. Light airs and breezes from N. W. by W. Engaged scraping spars squaring rattlings setting up rigging and coaling ship. Received during watch 35 22/240 tons.

P. F. Harris

Lieut U. S. N.

From 4 to 8 P. M.

Pleasant. Partially cloudy. Light breeze from N. N. W. first half, then from E. N. E. Hoot Tillie moored 6 m. Exercised ship securing to sea and standing officers made an official call on the Captain Jewell. Finished coaling at 7 m. having received in all 135 tons.

A. Nesbitt

Cussign U. S. N.

From 8 P. M. to Midnight

Clear and Pleasant. Little breeze from S. E. Bright moonlight. Ship riding to flood at end of watch. Fifty-four (54) bags of coal stowed on deck.

D. D. Galloway

Lieut U. S. N.

Examined and found to be correct.

S. W. Wadhams Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Manila

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.																	
1	No tide			North	N. E. by N.	1			30.098	80	79	76		b.c.m.	cir.cum.	4	S.
2	"			"	"	1			30.088	80	79	75		"	"	4	"
3	"			N. by W.	"	1			30.078	80	79	75		"	"	4	"
4	"			North	"	1			30.078	80	79	76		b.c.h.	"	3	"
5	Ebb			N. by W.	"	1			30.068	79	78	75		b.c.m.	"	4	"
6	"			North	"	1			30.078	79	78	75		"	"	4	"
7	"			N. by W.	"	1			30.098	79	78	76		"	"	4	"
8	"			N. W. by N.	N. W.	2			30.108	79	78	75		"	"	6	"
9	"			N. N. W.	N. N. E.	1			30.118	78	78	75		b.c.	cir	2	"
10	"			N. W.	"	1			30.118	79	78	76		"	cir.cum	2	"
11	"				N. W. by W.	1			30.108	80	80	76		"	"	2	"
Noon.	"			N. W. by W.	"	1			30.088	81	79			"	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours 600 "

Water remaining on hand fit for use at Noon, 1200 "

Coal consumed during the preceding 24 hours, tons 1660 lbs.

Coal remaining on hand at Noon, 134 " 180 "

P. M.											
1	Flood	N. W. by W.	South	0-1	30.05	82	81	79	b.c.	cir.cum	4 S.
2	"	"	Variable	0-1	30.03	82	82	78	b.c.	cumulus	1 "
3	"	N. N. W.	"	1	30.02	82	81	78	"	"	3 "
4	"	"	N. W. by N.	1	30.01	82	81	78	b.c.	cir.cum	4 "
5	"	N. W. by N.	N. W.	1	30.03	82	82	79	"	"	4 "
6		N. N. W.	E. N. E.	2	30.04	82	81	78	"	"	5 "
7		N. by W.	"	2	30.05	82	81	78	"	"	5 "
8		N. by E.	"	2	30.06	80	81	78	"	"	4 "
9	Ebb	N. E. by N.	East	1	30.06	80	80	76	"	"	9 "
10	"	N. by E.	"	1	30.06	79	80	76	"	"	9 "
11	"	E. N. E.	N. N. E.	1	30.06	79	79	76	"	"	8 "
Mid.	"	North	North	1	30.05	79	78	76	"	"	9 "

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday January 13th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Fair weather hazy about horizon and moonlight. Light airs from N. E. by N. No tidal current. Heading North and N by W.

H. C. Fleming
Lieut U. S. N

From 4 to 8 A. M. Partly clear hazy weather. Overcast and cir. clouds. Light airs from N. E. by N shifting to light N. W. breeze last hour. Riding to ebb. At 6 o. started fires in boilers 5 and 7 for distilling. Cleaning ship.

W. F. Low
Ensign U. S. N

From 8 A. M. to Meridian Clear and warm. Light airs from N. N. E to N W by W. Ebb tide. Received an official visit from the Ass of the Spanish admiral. Engaged in scraping and painting the outside of ship.

A. T. Mahan
Ensign U. S. N

From Meridian to 4 P. M. Cloudy with light passing showers second and third hours. Engaged painting ships side and cleaning. Distilling.

B. H. Buckingham
Lieut U. S. N

From 4 to 8 P. M. Clear and pleasant. Light breeze from E N E. Hoisting and securing boats and making other preparations for sea.

E. Galloway
Lieut U. S. N

From 8 P. M. to Midnight Clear and pleasant. Light airs from N N E, Port and East. Riding to ebb.

B. H. Buckingham
Lieut U. S. N

Examined and found to be correct.

A. T. Mahan
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Manila

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Calm			N. N. W.	Calm	0			30.05	74	84	80		b. c.	Cirrocum	8	S
2	"			"	E. N. E.	1			30.03	74	84	80		"	"	8	"
3	"			North	"	1-2			30.01	74	84	80		"	"	8	"
4	"			"	"	1			30.01	74	84	80		"	"	9	"
5	"			"	"	1			30.00	74	84	80		b. cum.	"	8	"
6	Heaving out of Manila Bay			S. W.	S. W.	1			30.03	74	84	80		"	"	8	"
7	"			Do	N. W.	1-2			30.05	74	84	80		"	"	8	"
8	"			Do	"	2			30.06	74	84	80		b. c.	"	9	"
9	Steering			Ship	North	3			30.06	74	84	80		"	"	8	"
10	"	9	0	W. S. W.	E. N. E.	3			30.04	74	84	80		"	"	8	"
11	8	9	92	3 W. by W. 1/2 W.	E. by E.	2			30.04	80	79	75	79	"	"	8	"
Noon.	9	4	111.4	"	N. W.	1			30.02	82	82	74	79	"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

	Position at Noon:	Latitude by D. R.	° ' "
		Longitude by D. R.	° ' "
29. 1130		Latitude by ~~Bearings of Point Silanguimbon~~ [illegible] N. 1/4 W. 1/2 W. 14 m.	"
		Longitude by ~~Bearing of La Bonga~~ [illegible] E. by E. 1/2 E. - E. 120° 19'	"
	Position at 8 a. m.	Latitude by	° ' "
		Longitude by	° ' "
	Position at 8 P. M.	Latitude by	N. 15° 16' "
		Longitude by	E. 119° 46' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 P.M. " N. N. W. E. 1° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 1250 "

Water remaining on hand fit for use at Noon, 2500 "

Coal consumed during the preceding 24 hours, 5 tons 225 lbs.

Coal remaining on hand at Noon, 128 " 2195 "

	P. M.									
	1	7	8	49.5	N. W.	W. by S.	2	30.00	82	74 80 b. c. Cir-cum 8 S
E. 120°	2	7	4	24.2	"	"	2	29.98	82	74 81 " " 8 "
Dy. 1124	3	7	3	34.5	"	"	2	29.96	82	74 81 " " 8 "
N. 14° 48'	4	7	5	35.0	N. by W.	N. N. W.	2	29.98	82	74 81 " " 8 "
	5	7	4	49.3	"	"	2	29.98	82	74 81 " Cum-str 3 "
Sa. 1100	6	7	5	66.8	"	"	2	29.98	82	74 81 " " 2 "
N. 15°	7	7	0	63.8	"	"	2	30.00	82	74 81 " Cum-str S S
E. 15' 83	8	7	0	41.0	"	North	2	30.02	82	74 81 " " 6 "
	9	6	9	41.9	"	N. by W.	2	30.01	82	74 81 " " 6 "
	10	6	9	8.2	"	N. N. E.	2	30.00	82	80 74 81 " " 6 "
	11	6	9	91.1	"	N. E. by N.	3	30.01	81	80 74 80 " " 6 "
	Mid.	6	4	94.5	"	"	3	30.01	80	80 74 80 " " 4 "

under the command of Commander T. F. Jewett U. S. Navy,

Friday January 1st, 1897.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences with Curtis H. A. M.

Clear and pleasant. Bright moonlight. Calm first hour then light airs from E to E.E. Ebb tide. Distilling. At 1.30 started fires under four more boilers.

C. S. T. Jewett
Ensign U. S. N.

From 4 to 8 A. M.

Partly clear hazy 1st hour. Few cumy clouds. Light variable airs increasing to light N.W. breeze last two hours. Smooth sea. At 4 brought to by chain. Got ready for sea. At 5 turned engines over & found them ready. At 5.15 called hands up anchor & went ahead, in derrick, one bell at 5.35 & hove at 5.45. Stood out from anchorage in charge of Duty Officer. Draft of ship, ready for sea 15' fwd, 16' aft. Received in bay Dept for issue to crew 64 lbs each of fresh beef & vegetables @ 1/3 lbs head. Steered port, awash for sea. Carried away one of capstan rollers, found broken, cause unknown. At end of watch standing out of Manila Bay on course S 68 W under steam alone. Steam 4. Revolutions 41. Distilling from 3 boilers.

C. S. T. Jewett
Ensign U. S. N.

From 8 A. M. to Meridian

Clear hazy & warm. Gentle breeze from N.W. shifting to North then N.E. & then to E.N.E. at 11.20 to N.E. While standing out of Manila Bay before the wind Courses obj'd & all (4) observed vessels close in shore standing in before the wind course E.S.E. On reaching out the course sailed & came with from N.W. then W.N.W. Bent main trysail. From 8.20 to 9 Divine Service. At 9.20 quarters at quarters. At 10 Gunnel Master reading finding & sentence of Summary Court Martial in case of F. A. Clarke, Gas who was confined for 5 days in double irons on bread & water, full rations every fifth day. At 9.30 made sail to topsails. At 10 changed course to N.W. took departure from Sangiemen N.W. 1/2 W. Isla Mariga E.S.E. E.N.E. Reading 11. Steaming with four (4) boilers. Distilling with two boilers. Relieved from confinement J. Hartes Gas app. C. By order of Duty Officer.

E. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Clear & pleasant. Light breeze from W. by S. to W.N.W. Standing up coast of Luzon. Set foresail & aft sail at 12.50 took it in at 3. & reset it at 3.20. at 3.25 changed course to N.N.W. Bearings at 4. Cappalmas N.N.E. 1/4 E. Faraellones S.E. by S. 3/4 S.

P. L. Wagner
Lieut U. S. N.

From 4 to 6 P. M.

Cloudy & pleasant. Light breeze from N.W. at 4.30 took in fore & aft sail. Steering course N.N.W. with coast of Luzon in sight on Starboard hand. Under steam alone. Distilling.

C. S. T. Jewett
Ensign U. S. N.

From 6 to 8. P. M.

Partly clear with some thin clouds. Bright starlight. Light breeze from N.N.W. from shifting to N. at 8 20 hours. Smooth sea with long easy swell from N. at end of watch on course N.N.W under steam alone. Steam 60. Revolutions 39. Distilling.

C. S. T. Jewett
Ensign U. S. N.

From 8 P. M. to Midnight

Clear, warm & pleasant. Gentle breeze from N. by W. veering to N. by E. at 9.50 set fore & aft sail. Distilling. Moon rose at 10.20. Gentle swell from North. Sea smooth.

E. Galloway
Lieut U. S. N.

Examined and found to be correct.

S. T. Washburn Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Ship making passage to Hong Kong

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	3	98.8	N. by W. / N. by W.	N. N. E.	3			29.98	80	79	68	80	b. c.	cir	9	1-2
2	4	2	8.2	"	"	2			29.98	80	79	68	80	b.	nimi	10	"
3	5	8	14.0	"	"	2			29.98	80	79	68	80	b. c.	cir	8	"
4	5	6	19.6	"	"	2			29.98	80	79	68	80	"	cir-cum	9	"
5	6	4	26.0	"	"	2			29.99	80	79	73	80	"	cir-cum sto	6	"
6	2	0	33.0	"	"	2			30.01	80	79	75	80	"	cumsto	5	"
7	2	4	40.5	"	"	2			30.03	80	79	76	80	"	"	5	"
8	8	4	48.9	"	"	2			30.05	80	80	76	80	"	"	6	"
9	8	4	56.2	N. by E. / N. E.	"	2			30.04	81	80	76	80	"	cumu	4	1-2
10	8	0	64.5	"	East	3			30.06	81	80	76	80	"	"	6	"
11	8	5	73.5	"	E. by E.	3			30.04	80	79	75	81	"	cir-cum	7	"
Noon.	8	2	81.6	"	"	3			30.03	80	79	75	81	"	"	8	"

Course and distance made good since preceding noon by observations, N. by W. 154 knots. tenths.

Position at Noon:	Latitude by D. R.	N 16	50
	Longitude by D. R.	E 119	49
	Latitude by observations of ⊙	N 17	01
	Longitude by chronometer from Forenoon Observations of ⊙	E 119	50
Position at 8 a. m.	Latitude by D.R.	N 16	34
	Longitude by Chrs do do do	E 119	28
Position at 8 P. M.	Latitude by D.R.	N 17	56
	Longitude by Chrs PM do do	E 119	33

Current during the time, knots 4 tenths per hour, setting to the North

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4.9 " N. W. by N. 0. ' "

Water expended during the preceding 24 hours, 370 gallons.

Water Distilled during the preceding 24 hours, 826 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 11 tons 960 lbs.

Coal remaining on hand at Noon, 117 " 1235 "

P. M.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
	0	4	8.20	N. N. E.													
1	6	1	28.6	N. by E.	North	1			29.98	81	78	74	81	b. c.	cir-cum	2	1-2
2	4	2	35.8	"	North	1			29.98	81	78	74	81	"	"	6	"
3	4	1	40.9	"	N. W.	1			29.98	81	78	74	81	"	"	5	"
4	6	9	49.8	"	N. by E.	1			30.00	83	82	74	81	"	"	2	"
5	4	2	54.0	N. W. by N.	N. E. by N.	5	8		30.00	81	80	75	81	"	"	8	"
6	8	2	62.2	"	N. E.	6	4		30.01	79	78	76	80	"	"	7	1-2
7	4	6	67.8	"	N. E. by N.	6	10		30.03	79	78	74	79	"	cum	7	1-2
8	8	4	76.2	"	"	6	10		30.05	79	78	74	79	"	"	6	"
9	8	3	84.4	"	N. N. E.	4			30.05	78	78	74	79	"	"	6	1-2
10	8	0	92	"	"	4			30.05	78	78	74	79	"	"	6	"
11	8	2	100.2	"	"	4			30.05	78	78	74	79	"	"	5	"
Mid.	8	1	108.4	"	"	4			30.05	78	78	74	79	"	"	5	"

under the command of Commander T. F. Rowe, U. S. Navy,

Saturday January 5th, 1867.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unto 4 A. M.

Clear and pleasant weather. Moonlight. Light to gentle breezes from N. N. E. at 12:15 changed course to N. by W. At 2:20 stopped distilling and at 2:40 connected boilers 5 and 6 to engine. At end of watch under jib, f. t. sail, spanker and steam.

Lieut U. S. N

From 4 to 8 A. M.

Clear and pleasant. Light breeze from N. N. E. At 4:30 took in jib and aft sail. Course N. by W. Under steam alone. At daylight East of Rogue in sight on starboard quarter

A. T. Dewey

Ensign U. S. N

From 8 A. M. to Meridian.

Partly clear with cumulus and cirro-cumulus clouds. Bright and warm. Light breeze from N. N. E. At 1 hour, coming out East in gentle breeze 2 hour, gentle breeze from E. S. E. Little Park. At 8:5 changed course to Hood P. L. 49. At 8:35 changed course to N. E., P. L. 57 & Broke out fore hold and cleaned forward bilges. At 9:45 set fore and aft sail. At 10:55 set foresail. Moderate short swell from South to which ship pitched and rolled uneasily. Smooth sea. By order of Lieut'g Officer the following punishments were inflicted: E. J. Schipperus (1 G. A.) 2 days double irons for obscenity and F. J. Jayne (1 G. A.), 2 days double irons for insolence to Divisional Officer. At end of watch on course N. E., under foresail, f. and A. sail and steam. Rounding to. Steam to

Lieut U. S. N

From Meridian to 4 P. M.

Clear. Hoist Colors and light breeze veering from Hood to N. by E. Gale of South. Sea smooth with moderate swell. Ship pitching deeply at times. High land in sight on starboard beam. At 2:09 changed course to North. Under steam alone during watch. At 4:: changed course to N. W. by N, patent log reading 109.8

Lieut U. S. N

From 4 to 6. P. M.

Fair and pleasant. Light breeze at beginning of watch soon increasing to fresh breeze from N. E. by N. and N. E. Moderate sea rising with short swell from South. Ship pitching heavily at times. At 4:30 set fore and aft sail and foresail. At 5:: took in flying jib and at 6:: gaff topsail. Steam with six boilers. Course N. W. by N. Log at 6:: reading 115.5

H. C. Gearing.

Lieut U. S. N

From 6 to 8. P. M.

Clear pleasant weather. Fresh breeze from N. E. by N. Rough sea from N. N. E. Under steam. Jib, fore topmast staysail, foresail, main trysail and spanker on course N. W. by N. Rounding to. Steam to.

Lieut U. S. N

From 8. P. M. to Midnight.

Partly clear with cirro-clouds. Bright starlight. Moon rose at 11:5 P. M. Moderate to fresh breeze from N. N. E. Moderate sea from N. N. E. with short heavy swell from South. Ship knocking about considerably. At end of watch on course N. W. by N. under steam; fore and aft sail and foresail. Steam to. Rounding to

Ensign U. S. N

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Sea making passage to Hong Kong.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	8	3	81.4	N. W by N	N. E by E.	6			30.01	64	65	63	68	b. c.	cumu	5	M-h
2	8	5	90.2	"	"	6			30.02	64	65	63	64	"	"	5	"
3	8	4	98.9	"	"	6			30.02	65	64	62	66	"	cir cumu	6	"
4	8	2	104.1	"	"	6			30.02	65	64	62	66	"	"	6	"
5	8	5	15.6	"	"	6		4	30.01	65	64	62	66	b. cu.	"	2	"
6	8	4	24.3	"	"	6		4	30.06	65	64	62	65	"	"	4	"
7	9	0	33.3	"	"	6		4	30.09	65	64	62	65	"	"	8	"
8	8	8	42.1	"	"	6		4	30.10	65	64	62	65	"	"	5	"
9	8	4	50.5	N. N. W. 3/4 W.	"	6	1/4	4	30.15	66	64	62	65	b. c.	cumu	2	"
10	4/4	5	59.6	N. N. W. 1/4 W.	"	6	1/4	5	30.15	65	64	62	65	"	"	3	"
11	10	4	70.3	N. N. W. 3/4 W.	"	5-6	1/4	5	30.13	66	65	62	65	f. c.	cir cumu	6	"
Noon.	9	2	79.5	"	"	5-6		6	30.11	65	64	62	65	"	"	2	"

Course and distance made good since preceding noon by observations, N. W by N, 19 4/4 knots. tenths.

Position at Noon:
- Latitude by D. R. — N 19 ° 51' "
- Longitude by D. R. — E 118 ° 11' "
- Latitude by observations of ⊙ — N 19 ° 46' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 118 ° 03' "

Dy. 1100

Position at 8 a. m.:
- Latitude by D R — N 19 ° 16' "
- Longitude by Chro do do do — E 118 ° 24 "

Position at 8 P. M.:
- Latitude by D R — N 20 ° 22 "
- Longitude by Chro, P M. Do Do — E 116 ° 40' "

Current during the time, knots 3 2/ tenths per hour, setting to the S. W. by W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 P.M. " N. W by N — E ° 46 "

Water expended during the preceding 24 hours, 350 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2450 "

Coal consumed during the preceding 24 hours, 12 tons 2185 lbs.

Coal remaining on hand at Noon, 104 " 1290 "

	P. M.												
	1	8	6	88.9	N. N. W. 3/4 W. N. W by W. 3/4 W.	N. E by E.	5-6	30.06	65	64	62	65	b. c.	cumu	3	M-h
	2	9	8	98.7	"	"	5-6	30.06	65	64	62	65	"	"	4	"
Dy. 1074 N 20° W	3	10	0	109.0	"	"	5-6	30.07	64	62	62	65	"	cumulus	2	"
E 117° 33'	4	10	4	119.4	"	"	6	30.07	64	64	62	65	"	"	2	"
	5	10	2	129.6	"	"	6	30.08	64	64	62	64	c. cu.	"	0	"
	6	10	4	140.0	"	"	6	30.09	64	64	62	63	"	"	0	"
	7	10	2	150.2	N. W. by W. 1/2 W.	"	6	30.04	64	64	62	63	" cu.	"	0	M
	8	10	4	161.1	"	"	6	30.11	64	64	62	63	"	"	0	"
	9	10	9	170.0	N. W by W. W. 3/4 W.	"	6	30.09	64	64	62	63	" cu.	"	0	"
	10	10	0	181.0	"	"	5-6	30.09	64	64	62	62	"	"	0	M
	11	8	8	190.8	N. W. 1/2 N.	"	5-6	30.09	64	64	62	62	"	"	0	"
	Mid.	9	2	200.5	"	"	5-6	30.09	64	64	62	62	b. cu.	"	1	"

under the command of Commander T. F. Jewett, U. S. Navy,

Sunday January 16th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & Cutter H. A. M.

Generally clear with passing cumy clouds. Stiff to fresh breeze from N.E. by E. Moderate sea. Ship rolling deeply to leeward. Half 2d. Moonlight. Steam, Jib, fore topmast staysail, foresail, mainsail & spanker.

A. Galloway
Lieut U.S.N.

From H. to 8. A. M.

Fair weather with haze around horizon. Fresh breeze from N.E. by E. Moderate sea with ship rolling heavily at times. Moonlight to sunrise. Course N.W. by N. No change in steam or sail.

H. McGarry
Lieut U.S.N.

From 8 A.M. to Meridian.

Generally cloudy weather with passing showers of drizzling rain first two hours. Stiff to fresh breeze from N.E. by E. At 9.30 called all hands & set single reefed fore topsail & doubled reefed main topsail. In bracing fore topsail yard, yard broke about 18 inches inside of starboard cathead (starboard) end of chafing batten. Took in & unbent fore topsail & sent down the yard. Moderate to head sea from N.E. Ship rolling & pitching deeply but easily. In sending down topsail yard T. F. Jewett Cdr. at 9.45, received a slight scalp wound from a falling block. At end of watch under steam, foresail, double-reefed main topsail, jib, fore topmast staysail, main trysail & spanker steering a course N.W. by N. At 10.30 set clock back 9 minutes. Steam 51. Revolutions 58.

R. L. Walsingham
Lieut U.S.N.

From Meridian to 4 P.M.

Generally cloudy. Clouds & rain. Wind stiff to fresh breeze from N.E. by E. Moderate sea with heavy swell from N.N.E. Ship rolling deeply at times. At 12.05 changed course to N.W. by W. 3/4 W. Distance 3. At 12.25 turned reef out of main topsail and set flying jib. Set main topgallant sail at 1.55. At end of watch on course N.W. by W. 3/4 W. under steam fore & aft sail, foresail, main topsail & topgallant sail. At work fishing fore topsail yard. Steam 53. Revolutions 58.5

C. A. Devereux
Ensign U.S.N.

From 4 to 6 P.M.

Overcast with passing mist. Sea moderate. Fresh breeze from N.E. by E. Half gale to leeward 3 C. Cloudy & shady. Ship easy.

E. D. Gleason
Lieut U.S.N.

From 6 to 8 P.M.

Overcast with passing mist. Fresh breeze from N.E. by E. Moderate sea. Steering N.W. by W. 1/2 W. No change in sail & steam.

H. McGarry
Lieut U.S.N.

From 8 P.M. to Midnight

Overcast murky weather. Stiff to fresh breeze from N.E. by E. Moderate to rough sea from N.E. At 10.05 changed course to N.W. 1/2 N. At end of watch ship under steam, foresail, main topsail, main topgallant sail, jib, main trysail & spanker. Ship rolling deeply at times & pitching slightly.

R. L. Walsingham
Lieut U.S.N.

Examined and found to be correct.

A. Markham
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Esk" , Rate,

At Sea making passage to Hong Kong

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	9	8	109.8	N.W.½.N	E.N.E	5			30.02	42	74	70	73	b.cu.	cumu	3	M
2	10	2	119.6	"	"	5			30.06	42	74	69	73	"	"	3	"
3	10	2	129.5	"	"	5			30.04	42	74	69	73	"	"	4	"
4	10	0	139.3	"	"	5			30.05	42	74	69	73	"	"	4	"
5	9	5	148.8	"	"	5			30.02	42	74	69	64	73	"	"	2	"
Oct 10 73 Lat 22.31 6	9	6	158.4	"	N.N.E	5			30.08	69	68	66	73	o.cu.	"	0	"
7	9	9	168.3	"	N.E by E	5			30.09	68	64	65	72	b.cu.	"	2	"
8	10	2	178.5	"	N.E	6			30.11	68	64	65	71	o.cu.	"	0	"
9	9	2	188.7	"	"	6	3		30.13	64	66	65	70	"	"	0	"
10	9	5	198.2	"	"	6	3		30.15	65	64	64	68	"	"	0	"
11	12	5	9.4	"	"	6	3		30.15	68	61	63	67	"	"	0	"
Noon.	9	4	19.4	"	"	6	3		30.12	63	62	60	66	"	"	0	"

Course and distance made good since preceding noon by observations, N.W. by N 245 knots. tenths.

Oct 10 73 Position at Noon:
- Latitude by D. R. — N 22 °06' "
- Longitude by D. R. — E 114 °28' "
- Latitude by observations of ⊙ — ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — ° ' "

Position at 8 a. m.
- Latitude by DR — N 21.46 "
- Longitude by Chro DR DR DR — E 115.13 "

Position at 8 P. M.
- Latitude by — ° ' "
- Longitude by — ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water ——————— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2150 "

Coal consumed during the preceding 24 hours, 13 tons 1780 lbs.

Coal remaining on hand at Noon, 90 " 1800 "

P. M.							
1	8 2 2.3 28.1 03.6	N.W.½.N N.W.by.W W.½.W	N.N.E	4	30.07	b.cu.	cumu 0
2	Standing into	Yard	4	30.05	63	61	60 "
3	Hong Kong Harbor	N.W.	2	30.05	64	64	61 "
4	at Anchor	"	1	30.05	66	65	63 b.c. cu 1 "
5		N.W.by.W	"	1	30.05	66	65 63 b.cu. " 2 "
6		West	W.N.W	1-2	30.07	66	65 63 " " 2 "
7		W.by.N	"	1-2	30.10	66	65 63 " " 2 "
8		West	N.by.W	1	30.11	66	65 63 cu. " 0 "
9	Ebb	W.by.N	Yard	1	30.13	66	65 63 o.cu. cumu 0 "
10	"	W.N.W.	"	1	30.13	66	66 63 " " 0 "
11	Foul	N.E	"	1	30.13	66	65 63 b.c. cumu 1 "
Mid.	"	East	"	1	30.13	66	65 63 " " 1 "

under the command of Commander T. F. Jewell, U. S. Navy,

Monday January 1st, 188[illegible].

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Cutter A M

Partly clear with cumi clouds. Occasional bright moonlight. Stiff breeze from E.N.E. Moderate sea and swell from E.N.E. to which ship rolls easily. Kept watch on course N.W. ½ N. under jib, fore topmast staysail, main trysail, spanker, foresail, main topsail and boat gallant sail and steam. Steam 48. Revolutions 48.

A. T. Jeffreys
Ensign U.S.N.

From 4 to 8 A M

Generally overcast. Stiff to moderate breeze from N.N.E. to N.E. by E. Sea smooth with moderate swell from N.E.

E. Galloway
Lieut U.S.N

From 8 A M to Meridian

Overcast and misty. Mist clearing off a little last hour. Moderate sea. Ship steady. At 8.25 called all hands, sent up fore topsail yard and bent fore topsail. At 9.10 ran down to intercept a small fishing boat stopping engines. Resumed course at 9.25 Released Ship's Corp 2 C & F. Gasner Ship's Corp 2 C, their terms of punishment having expired. At 11.20 set clocks back 13 minutes. At 11.30 sighted high land bearing W. by S. Land again at 12.40 bearing N. ½ E. Sounded at 10.25 in 38 fms and at 11.40 in 22 fms, bottom very fine black specks. Steam on six boilers. At 11.50 took in and furled all square sail. Course N.W. ½ N. Passed a number of Chinese junks.

H. Glearing
Lieut U.S.N

From Meridian to 4 P M

Overcast foggy over the land. Light airs and variable from N.W. Moderate breeze from N.N.E. and North. At 12.50 made Hong Kong South Light. At 40 stood in for harbor and hauled in patent log registering 3 35. At 2.00 took in foresail and main trysail and at 2.50 took in fore and aft sail. Hove preparatives for port. At 3.25 came to in Victoria Bay, harbor of Hong Kong, China, in 8 fms of water. Moored ship with 45 fms chain and anchors, on a N.E. and S.W. line of bearings. Draft fwd 13.2 Quarter 14.4 Aft 15.6. Received an official visit from an officer of H.B.M.S. "Audacious". Bearings at anchor. Police Station, Kowloon Peninsula N. ¾ E. Flagstaff, General's House S.W. by W. ⅝ W.

B. H. Harrison
Lieut U.S.N.

From 4 to 8 P M

Cloudy and misty. Light airs from W.N.W. Put on mooring swivel. Hoisted out steam cutter. Sent an officer to communicate with American Consul. Manned fires under boilers 1, 3, 5, 6, and 7 and 8 and started fires under 2 and 4 for distilling. Ship heading to W.

H. Glearing
Lieut U.S.N

From 8 P M to Midnight

Clear and cool. Light airs from North. At 10. commenced distilling at 11. strong to flood.

B. H. Harrison
Lieut U.S.N

Examined and found to be correct.

A. T. Mahan Lieut and Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Hong Kong

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.									a								
1	Flood			E by N	N. E	1			30.136	64	61			b.c.	cir-cum	9	S
2				East	"	1			30.126	63	61			"	"	8	"
3		"		N.E by E	"	1-2			30.116	63	60			"	"	2	"
4		"		N.E	"	1-2			30.116	63	60			clear	cum	10	"
5		"		N.N.W.	"	1-2			30.116	63	60			"	"	10	"
6		"		W.N.W.	"	1-2			30.126	63	60			"	"	10	"
7		"		N.W.	N.E by E	2			30.146	62	60			cum	"	10	"
8		"		E N.E	E N.E	3			30.186	62	59			b.c.	cum	2	"
9		"		E by N	E by S	2			30.206	62	59			"	"	2	"
10		"		E N.E	"	2			30.226	62	59			"	"	2	"
11		"		"	E N.E	2			30.196	62	59			"	cir-cum	4	"
Noon.		"		"	"	2			30.196	62	59			"	cum	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 850 "

Water remaining on hand fit for use at Noon, 2600 "

Coal consumed during the preceding 24 hours, 3 tons 1030 lbs.

Coal remaining on hand at Noon, 87 " 770 "

P. M.														
1			E by N	E N.E	1-2	30.166	63	59	b.c.	cir-cum	2	S		
2			East	East	2	30.116	63	59	"	"	4	"		
3			E by N	E by N	2	30.096	63	59	"	"	6	"		
4			E N.E	E N.E	2	30.096	63	60	"	"	6	"		
5			E by N	East	2	30.106	62	60	"	"	6	"		
6			East	"	2	30.126	62	60	"	"	2	"		
7	Ebb		West	"	2	30.136	63	61	b.c.	cir-cum	0	"		
8	"		W by N	"	2	30.146	63	61	"	"	0	"		
9	"		West	E N.E	2	30.166	56	62	"	"	0	"		
10	"		W by N	"	2	30.176	56	62	"	"	0	"		
11	"		N.N.W	"	2	30.186	63	62	"	"	0	"		
Mid.	"		E N.E	"	2	30.196	62	62	"	"	0	"		

under the command of Commander T. F. Green, U. S. Navy,

Tuesday January 18th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4 A.M. Cool with light airs from N.E. Clear, during first hour, the cloudy.

C. A. F. Jewett
Ensign U.S.N.

From 4 to 8 A.M. Cloudy with occasional light airs increasing to gentle breeze from N.E. to E.N.E. Ship heading to N.W. by W. until last hour when steering to wind. At daylight, an English gunboat left the harbor. Exercising.

H. H. Leaming
Lieut U.S.N.

From 8 A.M. to Meridian. Cloudy, cool weather. Light breeze from E. by S. & E.S.E. At 10.10 inspected at quarters. Commanding Officer paid official visit to English Vice Admiral. Exercising.

B. H. Wadleigh
Lieut U.S.N.

From Meridian to 4 P.M. Cloudy at beginning but clearing toward end of watch. Cool with light breeze from E. to E.N.E. Commanding Officer made official visits to the Governor of Hong Kong & Commanders "Rambler" & "Saphire". At 3.20 stopped, distilling, the tanks being full. At 3.30 hauled fires under boilers 2nd & 4th.

C. A. F. Jewett
Ensign U.S.N.

From 4 to 8 P.M. Cloudy, cool weather. Light breeze from East.

B. H. Wadleigh
Lieut U.S.N.

From 8 P.M. to Midnight. Cool & cloudy. Light breeze from E.N.E. Ebb tide.

C. A. F. Jewett
Ensign U.S.N.

Examined and found to be correct.

A. T. Mahan Lieut U.S. Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the Harbor of Hong Kong

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.																	
1	Stark			East	E by N	1			30.16	64	62	60		o.c.d.	cumb	0	S
2	"				E N E	1			30.12	64	62	60		"	"	0	"
3	"			E by N	"	1			30.15	64	62	60		"	"	0	"
4	"				"	1			30.14	64	62	61		"	"	0	"
5	Fluc			East	East	0-1			30.13	64	62	61		"	"	0	"
6	"			E N E	"	0-1			30.13	64	62	61		o.c	"	0	"
7	"			N E by N	Calm	0			30.14	64	63	61		"	"	0	"
8	"			"	"	0			30.16	64	63	61		"	"	0	"
9	"			N W by W	"	0			30.20	64	63	61		"	"	0	"
10	"			W N W	"	0			30.21	64	63	61		"	"	0	"
11	"			W by N	West	2			30.20	64	62	60		"	"	0	"
Noon.	"			"	"	2			30.19	64	62	60		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 350 "

Water remaining on hand fit for use at Noon, 2450 "

Coal consumed during the preceding 24 hours, tons 19 26 lbs.

Coal remaining on hand at Noon, 133 " 636 "

P. M.												
1	Stark	N W by N	West	2	30.13	69	62	58	o.c.	cumb	0	S
2	"	N E by E		2	30.10	63	62	59	"	"	0	"
3	"		N W	2	30.09	64	63	60	cum.	cumb	1	"
4	"	N N W	"	2	30.09	64	63	60	"	"	2	"
5	"	W by N	W N W	2	30.10	62	61	58	o.c	cum nim	0	"
6	Calm	North	N by E	1	30.11	62	61	58	"	"	0	"
7	"	N by W		1	30.15	62	60	54	"	"	0	"
8	"	W by N	N W	1	30.14	62	60	54	"	"	0	"
9	"	Calm	"	1	30.20	62	61	59	"	"	0	"
10	"	W by N	"	1	30.20	62	61	59	"	"	0	"
11	"	Calm	"	1	30.20	61	60	58	"	"	0	"
Mid.	"	W by N	"	1	30.20	61	60	57	"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,

Wednesday January 19th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced Middle P. M.

Overcast and cloudy with light drizzle. Light airs from E. by N. and E.N.E. Stock water.

A. Dunbarton
Ensign U.S.N.

From 4 to 8 A. M.

Foggy and drizzly. Raining first two hours. Light airs from E.N.E, and East and calms. Made preparations for coaling Ship. Received lighters at 7 and commenced coaling. Unbent fore topsail and sent down fore topsail yard. Received in Dept of Prov and Clothing 113 lbs fresh bread, 41 lbs fresh beef and 45 lbs vegetables.

B. F. Darling
Lieut U.S.N.

From 8 A. M. to Meridian

Overcast and cloudy. Calm first half then light breeze from East. Coaling Ship. Finished at 10.30 having taken in all 246 tons. The remainder of the C.C.M. Officers of F. A. Clarke Lds was permitted by the Comdg Officer to Discharge from U.S. Naval Service at their own request they waiving all claim for transportation to the United States the following men. H. K. Hoolaana O.R. Thos Hoop Ds. O.R. Cod. F. J. Hore Lds. C. Wells Lds. and F. A. Clarke, Lds. Received visits from several British Comdg Officers. Pandimus by Board of Survey For Topsail Yard.

C. A. F. Deguise
Ensign U.S.N.

From Meridian to 4 P. M.

Overcast and cloudy hazy latter part. Dist. Run as since last reckg. Light breeze from West to N.W. Received an official visit from Captain of H.B.M.S. Flounder. Received an official visit from A.D.C. to Genl Cameron in Command of H.M. Forces, at Hong Kong. Riding athwart stream. Stockwater.

E. Dunbarton
Ensign U.S.N.

From 4 to 8 P. M.

Overcast and cloudy. Light breeze from N.E. to N.W. The French Man-of-war "Primauguet" came in and anchored. Sent an officer to pay the usual visit of courtesy.

C. A. F. Deguise
Ensign U.S.N.

From 8 P. M. to Midnight.

Overcast Light airs from N.W. at 10.30 commenced swinging the ship.

B. F. Darling
Lieut U.S.N.

Shipped for the cruise as Landsmen.
Ah Kong, Ah Yuen, Ah Man, Ah Fat, Ah Kee, Ah Cheong.

Examined and found to be correct.

A. V. Wadhams Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Hong Kong

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Swinging			N.W.	West	1			30.196		60	54		b.c.	cumu	0	S
2	Ebbed			E.N.E.	"	1			30.196		60	54		"	"	0	"
3		"		N.E.	"	1			30.176		59	56		b.c.	cumu	3	"
4		"		N.E.	"	1			30.176		59	56		"	"	3	"
5		"		E. by N.	"	1			30.165		58	55		o.c.	cumu-nimb.	0	"
6		"		N.E.	"	1			30.165		58	55		b.c.	"	2	"
7		"		N.E. by E.	Calm	0			30.185		56	54		"	cir-cumu	3	"
8		"		N.E.	West	0-1			30.195		57	55		"	"	5	"
9		"		W.N.W.	"	2			30.225		66	53		"	"	2	"
10		"		W. by N.	"	2			30.245		65	53		o.c.	cumu-nimb.	0	"
11		"		"	"	3			30.245		65	53		"	"	0	"
Noon.		"		"	"	3			30.225		64	54		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2350 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 133 " 236 "

P. M.											
1		N.E.	West	3	30.195	85	95	54	o.c.	cumu-nimb.	0	S
2		N.W.	"	3	30.195	85	95	54	"	"	0	"
3	Swinging	N.N.E.	"	3	30.186	05	95	56	"	"	0	"
4		North	"	3	30.186	05	95	56	"	"	0	"
5	Ebb	N.N.W.	"	2	30.185	95	85	55	"	"	0	"
6	"	North	"	1	30.195	95	85	56	"	"	0	"
7	"		Calm	0	30.205	95	86	56	"	"	0	"
8	"	N.W.	North	1	30.236	05	95	56	"	"	0	"
9	"	W.by N.	"	1	30.236	05	95	56	"	"	0	"
10	"	West	"	1	30.236	05	95	56	"	"	0	"
11	"	"	"	1	30.246	06	05	6	"	"	0	"
Mid.	"	"	"	1	30.246	05	85	56	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday January 20th, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unmoored at 4 A.M.
Generally overcast. Light airs from West. Cut. Ship swinging to flood between 12 and 1.30.

E. Galloway
Lieut U.S.N

From 4 to 8 A.M.
Generally cloudy. Calm and light airs from West. Flood tide.

C.A. Tschiffely
Ensign U.S.N

From 8 A.M. to Midnight
Cloudy and cool. Cirrus cumulus and nimbus. Light to gentle breeze from West. Riding to last of flood. The Captain of the French corvette "Primaguet" called officially. French corvette fired 21 guns, English ensign at main which salute was returned by shore battery. Went to quarters for inspection at 9.30 after which drilled 1st and 3d divs. at Great Guns, Powder Stations and Navigators, at steering stars and rigging. Marines Boys and Officers. Trim Magazine and Shell Room. Food locks. At 10 Exec'g Officer left ship and paid official visits to French Corvette "Primaguet" and U.S.N.S. "Midge." Exec'g Officer of H.M.S. "Calacrity" called officially. Overhauling Hammocks.

C. Clark Todd
Ensign U.S.N

From Midnight to 4 P.M.
Overcast and Cool. Gentle to moderate breeze from West. Received in Steam Engineering Dept 80 Gallons Tea Oil in Navigation Dept 45 Gallons Tea Oil. Tide flood. At 100 Unmustered at quarters and turned in Hammocks. At 130 Exec'g Officer left the ship to pay official visits. Placed J. A. Williams (3 C. apl.) under arrest in charge to await action of Exec'g Officer.

E. Galloway
Lieut U.S.N

From 4 to 8 P.M.
Cloudy and Cool. Clouds cumulus and nimbus. Calms and light variable airs to breeze. Riding to ebb.

C. Clark Todd
Ensign U.S.N

From 8 P.M. to Midnight
Overcast and Cool. Calm and light airs from West. Tide ebb.

E. Galloway
Lieut U.S.N

Shipped for the cruise as Landsmen:
Al Lyman and Ah Heng.

Examined and found to be correct.

A.V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Esk", 3d Rate,

Moored in the harbor of Hong Kong

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			W. by N	West	2			30.215	85	85			D.C.	cumulus	0	S
2	Ebb			N. by W	"	2			30.225	85	84			"	"	0	"
3	"			E. by N	"	2			30.216	05	86			"	"	0	"
4	"			East	N.W	1-2			30.206	05	86			"	"	0	"
5	"			N.E by E	"	1			30.206	85	85			"	"	0	"
6	"			East	West	1			30.215	95	85			"	"	0	"
7	"			E. by N	Calm	0			30.225	95	86			"	"	0	"
8	"			"		0			30.235	95	86			"	"	0	"
9	"			N.E	N.E by E	0-1			30.235	95	85			"	"	0	"
10	"			"	East	1			30.266	05	84			D.C.	cirrus	0	"
11	"			"	"	1			30.266	26	18			"	"	0	"
Noon.	"			"	"	1			30.246	26	86			"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2000 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, " 132 " 2076 "

P. M.										
1	Flood	W. by N	East	2	30.20	62	61	D.C.	cir.cum.	9 S.
2	Ebb	N. by W	"	1	30.18	64	63	"	"	9 "
3	"	E. by N	"	2	30.16	63	62	"	"	8 "
4	"	"	"	2	30.18	62	61	"	"	7 "
5	"	East	"	2	30.18	62	61	"	"	4 "
6	Flood	"	"	2	30.18	61	61	"	"	4 "
7	"	"	"	2	30.18	61	61	"	"	3 "
8	"	N.E by E	N.E	2	30.19	61	60	"	"	2 "
9	Slack	N.N.W	N.N.E	2	30.20	62	61	D.C.	cum.nim.	0 "
10	Ebb	West	"	3	30.20	62	61	"	"	0 "
11	"	"	E. by N	3-4	30.20	62	61	D.C.	"	0 "
Mid.	"	"	East	3-4	30.20	62	61	"	"	0 "

under the command of Commander T. F. Jewell, U. S. Navy,

Friday January 21st, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends H. A. M.

Cloudy, cool & pleasant. Light breze from East & N.E. At 4h began heaving to ebb. Anchored to neap tide at 2.20.

N. C. Dearing,
Lieut U. S. N.

From 4 to 8 A. M.

Overcast & cloudy, cool. Gentle cuns & variable. Light airs from N.W. to West, first part. Calm afterwards. Cleaned forward bilges. Cleaning bilges in Engr's Dept. Received in Pay Dept. for issue to crew, 1/2 lb each of fresh beef & vegetables & 1/2 lbs fleet bread. Riding to flood.

N. C. Dearing
Lieut U. S. N.

From 8. A. M. to Meridian

Overcast, rain & cool first part. Clearing latter part. Gentle breze from N. E. At 8.30 Navigator left the ship with the compasses to make the semi-annual visit required by Bureau & returned on board at noon. At 9.35 mustered at quarters. Ship riding between wind & ebb tide. J. A. Williams, 2 cl. off., was placed in double irons for 3 days for insolence & not obeying orders. J. Schifferens, 2 cl. off. 2c, three days bread & water, for being late at drill & profanity.

Ed. G. Calloway
Lieut U. S. N.

From Meridian to 4 P. M.

Clear, cool & pleasant. Light breze from East. At 10.55 began to heaving to ebb. Anchored to neap tide, at 2.20 At 1.00 French Gunboat "Chasseur" anchored in the harbor. Sent an officer to make usual visit of courtesy & received a return of this preliminary call. At 2.30 English Gunboat "Espoir" came into the harbor. Received an official visit from her Duty Officer. Receiving stores in Medicial & Pay depts. In Pay dept the following. 300 lbs Bread, 200 lbs Flour, 200 lbs Pork, 800 lbs Beans, 600 lbs Beef, 200 lbs Rice, 125 lbs apples, 165 lbs Butter, 1/2 lbs Tomatoes, 6 1/2 lbs Mutton, 329 lbs Ham, 200 lbs Ham, 235 lbs Codfish, 25 lbs Sausage, 200 lbs Coffee, 60 lbs Tea, 1000 lbs Sugar, 30 Gals Molasses, 1/2 Gals vinegar & 125 lbs Pickles. In Medical dept the following, viz gr acacie Pulvis, 100 gr acidum Carbol. Crypt, 2000 gr acidum Carbol. impt, 100 gr acid Hydrocyanic, 400 gr Aetheris spirit. nitros, 800 gr Alcohol, 200 gr Alumen, 800 gr ammoniae Aqua, 200 gr Ammoniae Spir Aromt, 200 gr Ammonic Carbonas, 50 gr Bismuth, Sub Carb, 200 gr Camphora, 1000 Chloroformum, impt, 500 gr Copaiba, 100 gr Cubebae Abortiva, 800 gr Glycerine, 800 gr Glycerophigae, 400 gr Hydrarg, Unguent, 250 gr Iodoformum, 10 kg Linii Farina, 2 kg Linum, 4 kg magnesia Sulph, 250 gm Menth, pip, al, 1000 gm Opii Tinctura, 2000 gm Olei, Ricini Camph, 50 pil, Phosphor, 400 gr Potass Bromidum, 200 gm, Potass, Chloras, 2000 gr Potass et soda Tart, 600 Quinae Sulphas, 0.2 Gram, pil, 2000 gm Sapo, 2000 gm Sal, Succinum, 2000, Scillae Syrup, 1000 Sodii Bicarb, 400 gm, Sodii Boras, 20 Ver, Vacc Cer, 25 gm Zinci Carb praecip, 25 Zinci Sulphas, 20 gr Cocoaine Mur, 2000 gm Extract of beef, 3000 gm milk, 2 kg white sugar, 1 Clinical Ther, 50 Meter Muslin, 6 Hair Brushes, 3 M, Dinglass Plaster, 100 gm Surg, Sponge, 150 vial Corks, 45 paper Pill Boxes, 45 wood Pill Boxes, 60 assts vials, 2 Tumblers, 2 wine Glasses, 16 Pencils, 5 Lead Pencils, 1 bottle Mucilage.

N. C. Dearing
Lieut U. S. N.

From 4 to 8. P. M.

Cloudy & cool. Light breze from N. E. Commanding Officer of French Gunboat "Chasseur" paid an official visit to the ship.

Ed. G. Calloway
Lieut U. S. N.

From 8. P. M. to Midnight

Cloudy & cool. Gentle breze from N. N. E. to East, with moderate to fresh squalls last two hours. At 9.30 heaving to ebb tide.

N. C. Dearing.
Lieut U. S. N.

Examined and found to be correct.

A. T. Wadham Lieut & Navigator.

LOG of the UNITED STATES Steamer "Esek" , 3d Rate,

Moored in the Harbor of Hong Kong

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	Air, Wet Bulb.	Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
A. M.																	
1	Ebb			N.W. by W.	N.E.	3.5			30.20	62	61	59		m.cl.gr.	cirrus	0	S.
Swinging to Flood				E.N.E.	"	3.5			30.20	61	60	58		"	"	0	"
3	"			E. by N.	"	3.5			30.19	60	60	58		o.cl.	"	0	"
4	"			"	"	3.5			30.18	60	60	58		"	"	0	"
5	"			"	"	3			30.19	60	60	58		"	"	0	"
6	"			"	"	3			30.18	60	60	58		o.cum	"	0	"
7	"			"	"	2			30.18	60	60	59		"	"	0	"
8	"			"	"	2			30.18	60	60	59		"	"	0	"
9	"			"	S.E.	2			30.21	62	60	59		"	"	0	"
10	"			N.E. by E.	East	2			30.21	63	62	59		"	"	0	"
11	Swinging to Ebb			N.E.	"	2			30.21	63	63	59		"	"	0	"
Noon.	Ebb			N.N.W.	"	2			30.19	63	63	59		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1680 "

Coal consumed during the preceding 24 hours, 1 tons 816 lbs.

Coal remaining on hand at Noon, 166 " 1260 "

P. M.											
1	Ebb	N.W.	E.N.E.	1	30.11	64	62	60	o.c.	cumulus	0	S.
2	"	"	"	1	30.12	64	62	60	o.c.	"	2	"
3	"	E.N.E.	"	1	30.06	65	64	62	"	"	2	"
4	Slack	E. by S.	"	1	30.06	65	64	62	"	cu. cum nimb	1	"
5	Swinging to Flood	N.E. by E.	West	2	30.06	65	64	62	c.f.	cum & nimb	0	"
6	Flood	E.N.E.	"	1	30.06	64	63	61	"	"	0	"
7	"	N.E.	"	1	30.02	64	63	61	"	nimb	0	"
8	"	N.E. by E.	"	1	30.09	65	64	62	"	"	0	"
9	"	Coast	East	1	30.11	65	64	63	o.c.	"	0	"
10	Ebb		"	1	30.11	65	64	63	o.c.	"	0	"
11	"	W. by N.	"	1	30.09	65	64	63	"	"	0	"
Mid.	"	W. by S.	"	1	30.08	65	64	63	o.c.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday January 22, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 P.M.

Commences Cloudy with mist. Light airs from E. Rainy last two hours. Little to stiff breeze in squalls from E. at 2. swung to flood.

D. Wagaman
Lieut U.S.N.

From 4 to 8 A.M.

Overcast and cool. Light breeze from N.E. Tide flood. Light drizzle at 5.30. Made preparations for coaling. At 6.30 coal lighters came alongside. Began coaling at 7.20. Received in Pay Dept 141 lb fresh beef, 141 of vegetables and 113 of Bread.

C. Galloway
Lieut U.S.N.

From 8 A.M. to Meridian

Cloudy and overcast with mist on the hills. Light breeze from East. At 10.55 began to swing to ebb, not around at 12^M. Received on board new topsail yard, sent it aloft and bent fore topsail. Coaling ship, coal in bags on deck. Receiving on board 35 tons. The Comdr Comdg made official calls on H.B.M. Ships "Sirinet" and "Espoir" and the French Juntoat Chasseur. Received mercurial barometer, sent on shore for repair.

H.C. Gearing
Lieut U.S.N.

From Meridian to 4 P.M.

Overcast. Light airs from E.N.E. Riding to ebb. Ensign Hugh Rodman U.S. Navy was this day detached from this vessel and ordered to the U.S.S. "Monocacy". Went heaving ship fore topmast staysail and gaff topsail. Engaged coaling ship and making preparations for sea.

D. Wagaman
Lieut U.S.N.

From 4 to 8 P.M.

Cloudy with fog over the hills. Setting down on the bay last two hours. Light airs from West. Making preparations for sea. At 5^M quarters, turned in clean hammocks and cleared battery for sea. Hoisted steam cutter. Riding to flood tide. Bent fore topmast staysail.

H.C. Gearing
Lieut U.S.N.

From 8 P.M. to Midnight

Overcast cloudy and cool. Clouds humb. Raining at the last hours. Light airs from East. Riding to ebb. P. O'Brien (C.F.D.) came on board 10 hours over time and was placed under sentry charge to get sober.

A.C. Commerford
Ensign U.S.N.

Examined and found to be correct.

A.V. Wadhams Lieut U.S. Navigator.

LOG of the UNITED STATES Steamer "Ettie", 30 Rate,

Moored in the Harbor of Hong Kong

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			West	Calm	0			30.07	66	65	64		b.c.	cum nimb	0	0
2	"			W. by N	"	0			30.07	66	65	64		"	"	0	"
3	"			N.W. by N	"	0			30.03	65	63	62		"	"	0	"
4	Flood			N.N.E	N.N.E	0-1			30.02	65	63	62		"	"	0	"
5	"			E. by N	N.W.	1			30.00	65	64	62		b.cu.	cir cum	5	"
6	"				"	1			30.00	65	64	62		"	"	4	"
7	"			E.N.E	"	1			30.00	65	64	62		"	"	3	"
8	Standing out			"	East	1-3			30.02	65	64	62		"	"	2	"
9	of harbor			S.E. 3/4 S	"	2-3			30.08	64	64	62		o.f.d.	"	0	"
10	4 1/2	35.4		E by N	"	2-3			30.08	64	64	62	61	"	"	0	"
11	4 1/2	44.4		E.N.E 1/4 E	E.N.E	2-3			30.00	64	63	62	61	"	"	0	2
Noon.	4	55.5		"	"	2-3			30.09	64	62	61	61	o.f.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. — N 22° 19' "
- Longitude by D. R. — E 114° 39' "
- Latitude by observations of ⊙ — N 22° 18' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 114° 32' "

Position at 8 a. m.:
- Latitude by — ° ' "
- Longitude by — ° ' "

Position at 8 P. M.:
- Latitude by D R — N 22° 34' "
- Longitude by Chron P.M. -8a — E 113° 33' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1360 "

Coal consumed during the preceding 24 hours, 4 tons 2000 lbs.

Coal remaining on hand at Noon, 161 " 1500 "

	P. M.													
	1	4	6	63.1	E.N.E 1/4 E	E.N.E	2-3	29.95	66	63	62	61	o.f.d.	cum nimb	0	2
4.1074	2	4	6	40.4	"	"	2	29.94	66	64	62	61	"	"	0	"
N 22° 24'	3	4	8	48.5	"	"	2	29.93	66	64	62	61	"	"	0	"
E 113°	4	4	6	86.2	"	"	2	29.92	65	65	61	61	"	"	0	"
	5	4	7	93.9	E.N.E 1/2 E	"	2	29.92	65	64	62	61	b.cu.	cum str nimb	1	0
	6	4	5	101.4	E by N	East	3	29.92	65	63	62	61	b.cu.d.	nimb	0	"
	7	4	5	8.9	E 1/2 N	"	3	0	29.92	65	63	62	61	"	"	0	"
	8	6	6	15.4	E 3/4 N	"	3	0	29.92	64	62	61	61	"	"	0	"
	9	4	1	22.5	E 1/2 N	E.N.E	4		29.95	66	63	61	61	a.fair	"	0	"
	10	5	5	29.8	E.N.E 1/2 E	"	4		29.94	65	63	61	60	"	"	0	"
	11	1	1	36.9	"	N.E by E	4-6		29.94	65	63	61	60	"	"	0	"
	Mid.	6	0	44.1	E.N.E	"	4-6		29.96	65	62	61	60	"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,

Sunday January 23d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Commences and Curtis 4 A. M.

Overcast and cloudy. Calm. Ebb tide. Curtis 3 when steering to Westward. At 7.00 started fires under four boilers and at 2 4.0 under two more.

C. A. T. Dodson
Ensign U. S. N.

From 4 to 8 A. M.

Clear overhead with mist on hills and bay. Light N. W. air till last hour when ran into a gentle breeze from East. Riding to ebb tide. At 5h. called all hands muster ship. Moored and at 7h 33m went ahead slow bell, stopping at 7h 40m to clear starboard anchor and going ahead full speed at 7h 50m. Standing out of harbor under charge of Curtis Pilot. Steam under six boilers. Draft of ship first 14' 2", amid 15' 4" aft 16' 6"

H. H. Jennings,
Lieut U. S. N.

From 8 A. M. to Meridian

Overcast with fog, drizzling part of watch. Light to gentle breeze from East and E. N. E. Standing out for offing. At 9:15 put over patent log reading 34 and took departure Cape D'Aguilar Light House bearing S. W. by W. distant 1 3/4 miles. Set course E. by N. At 10:15 changed course to E. N. E 1/4 E. At 10:27 set clock back 12 minutes. Under steam alone at end of watch. Steam 1. Revolutions 40 at 12. sights Single Os bearing N. by E 3/4 E.

D. F. Wallen
Lieut U. S. N.

From Meridian to 4 P. M.

Overcast and cloudy with light drizzling rain at intival. Light breeze from E. N. E and E. by N. Long swell from E. Ship pitching easily. At 1.30 sent down Topgallant Masts. At 3h 05m sighted Pedro Blanco Light bearing S. E. Land in sight on port hand during forenoon. Under steam alone. At 3h 30m started fires under two more boilers for distilling. Steam 5. Revolutions 45.

A. T. Dodson
Ensign U. S. N.

From 4 to 6 P. M.

Overcast, thick. Light drizzle. Gentle to moderate breeze from East. At 4h changed course to West. Sea smooth.

E. Galloway
Lieut U. S. N.

From 6 to 8 P. M.

Overcast with mist emerging into rain. Gentle breeze from East. Sea smooth. At 7h 25m sighted a white light, ahead, ran E. N. E. for ten minutes to clear it, having it abeam at about 7h 35m. Steam under six boilers. Distilling with tubes.

H. H. Jennings.
Lieut U. S. N.

From 8 P. M. to Midnight

Misty overhead, foggy overhead. Moderate breeze from E. N. E. Moderate to fresh breeze from N. E. by E. At 9:15 changed course to E. N. E 1/2 E. At 11:10 to E. N. E. A steamer passed standing to N. W. E. Under steam alone. Distilling

B. F. Darrin
Lieut U. S. N.

Examined and found to be correct.

A. T. Wadhams Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 2d Rate,

at Seamaking passage to Annex

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	4	51.5	E ½ E	E ½ E	4			29.93	65	62	61		o c	cir cum	0	S
2	4	1	58.6	"	"	4			29.92	66	60	61		"	"	0	"
3	6	8	68.4	"	"	5			29.90	64	61	60	61	"	"	0	L
4	6	5	65.9	N E by E	"	3			29.88	64	60	59	61	o c d.	"	0	"
5	6	6	49.0	"	"	3			29.88	63	60	60	61	"	"	0	S L
6	6	3	85.3	"	"	3			29.90	63	60	60	59	o c u	"	0	"
7	4	0	92.9	"	"	3			29.93	63	60	60	59	"	"	0	"
8	6	6	98.9	"	"	3			29.92	63	60	59	59	"	"	0	"
9	6	2	105.1	"	N E by E	3	0		30.01	61	60	59	59	o f u	n m e	10	N
10	6	4	11.5	"	"	3-4	0		30.00	61	60	59	59	"	"	10	"
11	5	4	14.2	"	"	4	0		30.01	60	59	58	59	"	"	10	"
Noon.	4	0	22.2	"	N N E	4-3	0		29.96	61	59	58	59	"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

	Latitude by D. R.	N 112	0 18' "
	Longitude by D. R.	E 23	0 14' "
Pg. 1074 Position at Noon:	Latitude by ~~observation of ⊙~~ bearings at 1 P.M. Lemrock & Homerton 23/4 84 Ford Fairmont 99 W. 4/4 W	N 23	0 13' "
	Longitude by ~~chronometer from Forenoon Observation~~ bearings of ⊙	E 112	0 09' "
Position at 8 a. m.	Latitude by	N 23	0 04' "
	Longitude by	E 116	0 52' "
Position at 8 P. M.	Latitude by D.R.	N 23	0 4' "
	Longitude from bearings at 5 P.M.	E 112	0 52' "

Current during the time, knots. 33 tenths per hour, setting to the W. ½ W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water distilled during the preceding 24 hours, 1960 "

Water remaining on hand fit for use at Noon, 3000 "

Coal consumed during the preceding 24 hours, 18 tons 1660 lbs.

Coal remaining on hand at Noon, 142 " 2080 "

P. M.													
1	2	0	3.3	N E		4	29.94	61	59	58	59	o d f	n m e	0	N
2	2	2	39.0	"		4	29.95	61	60	60	59	"	"	0	"
3	4	6	46.6	"		4	29.96	62	60	60	59	"	"	0	"
4	4	1	59.4	"		4	29.94	61	60	59	59	"	"	0	"
5	4	2	61.0	"		3	29.94	61	59	58	59	o c d u	c u m u l	0	S
6	4	5	68.5	"	E ½ E	3	29.94	61	60	59	59	o c	"	0	"
7	6	8	75.3	"	East	3	29.98	61	59	58	59	o c g.	"	0	"
8	6	5	81.8	"		3	29.98	61	59	58	59	o c g r.	"	0	"
9	4	0	88.8	N E ½ N	N E by N 3/4	3-4	30.06	60	59	58	58	o c r	c u m u l	0	N
10	6	4	95.2			3-5	30.08	60	59	58	58	o c r g f.	"	0	"
11	6	2	101.4	N E		3-5	30.05	59	58	57	58	c g d.	"	0	"
Mid.	5	9	4.3	N E ¼ N		3-5	30.05	59	58	57	59	b r g f.	s t r a t	1	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday January 24th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and ends 4 A.M.

Overcast and cloudy. Light to gentle breeze from E. by S. At 3:30 changed course to N. E. by E. P. L. 65 9. Under steam alone. Distilling. Steam 50. Revolutions 45. 9. Lost overboard by stray line, carrying away one lead and one brass tube of Thompson's Sounding Machine.

C. A. F. Jeffers
Ensign U. S. N.

From 4 to 8 A. M.

Overcast and thick with constant mist and drizzle. Light breeze from E. by E. Got casts (Thomson Machine) each hour; 21 fms at 4:30, 21 at 5:30 19 at 6:30, 18 at 7:30. Sea broken with moderate swell from N. at 7:30 passed through large fleet of junks.

E. J. Galloway
Asst U. S. N.

From 8 A. M. to Meridian

Thick foggy with water. Gentle to moderate breeze from N. E. by E. hauling to N. by E. last hour. Moderate sea. At 9:30 quarters. At 10:45 set clock ahead 2 minutes. At 10:50 called all hands and went down topsail and lower yards. Sounded at 8:30, 9:30, 10:30, and 11:30 in 18, 17½, 17½ and 19 fms, bottom broken shell, grey sand and black specks. Steaming with six boilers and distilling with two. Tanks full at 11:50 stopped distilling. Course N. E. by E. At 11:00 used up all coal on deck.

H. L. Jeffers
Asst U. S. N.

From Meridian to 4 P. M.

Overcast, drizzling and foggy. Moderate breeze from N. E. Moderate decreasing sea. Course N. E. by E. At 12:00 sighted Lamrock Is and small rocks to S. E. by E ¼ E. At 2:07 stopped down. Got casts in 18 fms, broken shell and grey sand. At 12:07 changed course to East. At 12:13 went ahead fast steam and changed course to E. by S. At 12:45 sighted loom of land E. by N. At 12:35 changed course to N. E. ¼ E. At 1:00 Lamrock Is Light-House bore S. E ¼ S distant 1½ miles. At 1:00 changed course to N. E. ½ N., at 1:10 to N. E. by N. and at 1:30 to N. E. ½ E. At 2:30 lost sight of Lamrock Is Light-House bearing S. W. by S. Land in sight along port bow and beam. Sighted two steamers standing to N. At 12:30 got cast in 14½ fms, bottom grey sand. At 3:30 got cast in 23 fms bottom grey sand and black specks. At 1:30 hauled fires in boilers 1 and 2.

D. H. Galloway
Asst U. S. N.

From 4 to 6 P. M.

Overcast and cloudy. Misty with light drizzling rain during first hour then clear. Gentle breeze from N. E. and E. by E. Tide ripples ahead and astern during watch. Under steam alone. Sighted N. E ¼ E. at 5:00 sighted the Borders bearing E. by N. at 5:45 ships were abeam. P. L. 66. Several islands in sight of port land.

C. A. F. Jeffers
Ensign U. S. N.

From 6 to 8 P. M.

Overcast with passing showers and light squalls. Wind light to stiff from E. by E. East at 7:30 got cast Thomsons Machine 28 fms, gravel. Changed course to N. E ¼ N.

E. J. Galloway
Asst U. S. N.

From 8 P. M. to Midnight.

Overcast with occasional patches of blue sky last hour. Gentle breeze with frequent stiff squalls from N. E. by N. Moderate sea. Sounded at 8:00, 9:00 and 10:00 in 19, 18 and 17 fms, bottom black specks. At 10:00 Lighted Chappell Is light bearing N. E ¼ N. Ran N. E. by E. a few minutes, mistaking light for ships light. Course N. E ¼ N. Light-house N. E ½ N. at 12:00 Steam alone.

H. L. Jeffers
Asst U. S. N.

Examined and found to be correct.

S. V. Wadhams
Lieut U. S. N.

S. V. Wadhams Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Amoy

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				N. E. 1/4 E.													
1	3	0	133	N. E. by E.	N. E.	4-6			30.036	65	58	54	58	ocm.	mmh.	0	
2	2	3/4	18.9	N. E. by E.	"	4-6			30.036	65	58	54	58	"	"	0	"
3	1	3/4	26.5	N. E. by N.	"	4-6			30.016	65	58	56	58	"	"	0	"
4	2	1	33.4	N. W. by W.	"	4-6			30.016	65	58	56	58	"	"	0	"
5					"	4-6			30.015	95	74	66	58	"	"	0	"
6				N. N. W.	"	4-5			30.025	95	74	56		ocl.	cumulus	0	"
7				N. E.	"	4-5			30.025	95	74	56		ocl.	"	0	"
8				"	"	4-5			30.025	95	74	56		"	"	0	"
9	Flood			East	"	4-5			30.058	66	65			"	"	0	"
10	"			E. by S.	"	5-4			30.058	95	66	56		ocr.	mmh.	0	"
11	"			E. S. E.	N. E. by E.	4-6			30.059	95	74	56		"	"	0	"
Noon	Slowing			S. E. by E.	"	4-6			30.059	95	74	56		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2680 "

Coal consumed during the preceding 24 hours, 11 tons 720 lbs.

Coal remaining on hand at Noon, 131 " 1360 "

P. M.										
1	Flood	E. by S.	E. N. E.	2-3	30.055	95	74	56	ocm.	mmh.	0	S
2	Slack	East	E. by N.	2-3	30.035	85	65	55	ocm.	"	0	"
3	Ebb	N. W. by N.	N. E.	2-4	30.035	75	55	54	ocm.	"	0	"
4	"		"	2-4	30.025	75	55	54	"	"	0	"
5	"	N. by E.	"	3	30.065	75	65	54	"	"	0	"
6	"	N. N. E.	"	3	30.095	85	65	55	"	"	0	"
7	Swinging	E. S. E.	"	2-3	30.115	85	55	54	ocr.	"	0	"
8	Flood	S. E.	East	2-3	30.135	85	55	53	"	"	0	"
9	"	S. E. by E.	"	2-3	30.165	85	35	52	"	"	0	"
10	"		"	2-3	30.185	95	75	53	"	"	0	"
11	"	S. E.	"	4-5	30.185	95	75	53	"	"	0	"
Mid.	"	S. E. by E.	"	4-5	30.175	85	35	52	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday January 25th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 P.M.

Overcast, thick and raining. Light breze with moderate squall. Received a call of courtesy from an officer of the Chinese Gunboat "Chen Sing". Placed T. Schwenger (Sailor) under settling charge as drunk and troublesome. Slack water at 12 m. Going to ebb tide at 2 30 m. and riding to tide rest of watch. at 3 4 m. hauled fires under four boilers, keeping fires under two.

H. C. Gearing
Lieut U. S. N

From 4 to 6 P.M.

Overcast, raining and misty weather. Gentle breze from N. E. Riding to ebb.

P. L. Waring
Lieut U. S. N

From 6 to 8 P.M.

Cloudy and raining. Light to gentle breze from N. E. and East. Ebb tide.

C. F. Lechtzin
Ensign U. S. N

From 8 P.M. to Midnight

Overcast and raining. Light breze with puffs from East. Ship riding between wind and tide.

C. P. Galloway
Lieut U. S. N

Examined and found to be correct.

A. V. Wadhams Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Amoy.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Slack			E by N	E. N. E	3-6			30.165	52	50			10 C.N.	cumuli	0	S
2	Swinging			N by E		3-6			30.155	55	50	48		"	"	0	"
3	Ebb			N. W by W	N. E	3-4			30.145	56	52	50		"	"	0	"
4	"			"	N N E	3-4			30.145	55	52	51		"	"	0	"
5	"			North	"	3			30.165	52	52			"	"	0	"
6	"			N. W by W	North	3			30.155	52	52			"	"	0	"
7	"			S. E by E	S by E	1-2			30.165	52	52			"	"	0	"
8	Flood			South	N. E	1-2			30.185	52	52			"	"	0	"
9	"			E. S. E	"	2-4			30.185	52	51			10 C.N.S.	"	0	"
10	"			S. E by E	"	2-4			30.205	85	35	1		"	"	0	"
11	"			S. E by S	"	2-4			30.205	85	35	2		"	"	0	"
Noon.	"			"	"	2-4			30.185	45	45	2		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2360 "

Coal consumed during the preceding 24 hours, 1 tons 1160 lbs.

Coal remaining on hand at Noon, 130 " 200 "

P. M.											
1	Flood	S E	N. E	3-4	30.165	52	52	10 cr.cumuli	0	S
2	Ebb	E by N	"	3-6	30.125	65	52	"	0	"
3	"	N. W by N	"	3-6	30.125	65	51	"	0	"
4	"		"	3-6	30.115	65	52	"	0	"
5	"	North	"	3-6	30.125	65	52	"	0	"
6	"	N N E	"	3-6	30.145	55	50	"	0	"
7	"	N E by N	"	3-5	30.165	51	49	10 cr.s	0	"
8	Slack	E N E	"	3-5	30.165	50	49	"	0	"
9	Swinging	S E	"	3-5	30.185	52	50	"	0	"
10	Flood		"	3-5	30.185	52	51	"	0	"
11	"	S E by E	"	3-5	30.165	52	52	"	0	"
Mid.	"	E S E	"	3-5	30.155	52	52	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,

Wednesday January 26th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences with Cutter & A. M.

Heavy rain entire watch. Light to gentle breeze with frequent squalls very fresh first part, from E. N. E. to N. N. E. Slack water at 10m. Aground to ride about 2m. Riding to rob rest of watch.

From 4 to 8 A. M.

Lieut C. F. M

Overcast and raining weather entire watch. Gentle breeze from N. N. E. & N. E. Light airs to light breeze from North. Riding to rob. Made preparations for coaling ship.

From 8 A. M. to Meridian

Lieut C. F. M

Raining & squally. Light to moderate breeze from N. E. Flood tide. At 9.30 a.m. shifted at 9 quarters. Sent an officer on an official visit to a Chinese man-of-war.

From Meridian to 4 P. M.

Ensign C. F. M

Overcast, thick weather with continuous rain. Light to stiff breeze from N. E. At 3.30 two coal lighters came alongside. During watch received fifteen (15) tons of coal. Stowing it in bunkers and on deck in bags. Riding between wind & tide.

From 4 to 6 P. M.

Lieut C. F. M

Overcast, thick & raining. Gentle breeze with frequent fresh squalls from N. E. Riding between ebb tide & wind. Finished coaling ship at 5.50 p.m. taking in all 26 869/2240 tons.

From 6 to 8 P. M.

Lieut C. F. M

Overcast, raining weather. Gentle to stiff breeze in squalls from N. E. Riding to the ebb & wind.

From 8 P. M. to Midnight

Lieut C. F. M

Raining & squally. Gentle to stiff breeze from N. E. Flood tide.

Ensign C. F. M

Examined and found to be correct.

A. T. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Cairo

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			S.E.	E.N.E.	2-3			30.145	65	35	32		ocr.	cumh.	0	S
2	"			East	"	2-3			30.155	65	25	1		"	"	0	"
Swinging to Ebb				N.W. by N.	"	2-3			30.135	65	25	1		"	"	0	"
4	"			N.W.	"	2-3			30.135	65	25	1		"	"	0	"
5	"			N.W. by N.	N.N.E.	3-4			30.135	65	25	1		"	"	0	"
6	"			N by W.	N.E.	3-4			30.165	65	15	0		"	"	0	"
7	Slack			N.E. by N.	"	2-3			30.165	65	15	0		"	"	0	"
8	Swinging			W. by S.	"	1			30.175	65	25	1		"	"	0	"
9	Flood			"	"	1-2			30.195	65	35	2		"	"	0	"
10				East	"	1-2			30.205	65	45	3		"	"	0	"
11	"			S.E. by E.	"	1-2			30.185	65	45	3		"	"	0	"
Noon.				E. by S.	N. by E.	1-2			30.195	65	45	3		ocmr.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 3[illegible] gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2060 "

Coal consumed during the preceding 24 hours, 2 tons 720 lbs.

Coal remaining on hand at Noon, 156 " 1720 "

P. M.												
1	Flood	E.S.E.	N.E.	2	30.185	65	53	ocr.	cumh.	0	S.
2	Slack	"	"	2	30.165	65	35	"	"	0	"
3	Swinging to Ebb	N.N.W.	"	2	30.165	65	55	"	"	0	"
4	Ebb	N.W.	"	1-2	30.355	65	55	"		0	"
5	"	N.N.W.	E.N.E.	3	30.155	65	53	oc.	cumh	1	"
6	"	North	"	3	30.055	65	54	"	"	0	"
7	"	N.W.	N.E.	3	30.055	65	55	ocr.	cumh	0	"
8	"	W. by N.	"	2	30.155	65	55	"	"	0	"
9	"	W. by S.	"	2	30.255	65	55	"	"	0	"
10	Swinging to Flood	South	"	2	30.255	65	55	"	"	0	"
11	"	S.E. by E.	"	2	30.155	65	56	"	"	0	"
Mid.	"	E.S.E.	"	2	30.055	65	55	"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,

Thursday January 2nd, 1879.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Curtis & A.M.

Overcast, squally with continuous rain. Between 2 & 3 o'clock swung to ebb tide. Light to stiff breez from N.E.

T.B. Galloway
Lieut U.S.N

From 4 to 8 A.M.

Overcast thick & raining. Light breez from N.E with rain squalls & falling to light air last hour. Ebb tide. Slack water at 7.00 at 7.30 a marked tide-rip passed the ship & began to swing to flood.

H.C. Seaving
Lieut U.S.N

From 8 A.M. to Meridian

Overcast raining weather. Light airs & breez from N.E. & N. by E. at 8:45 swung to flood. Clearing a little towards end of watch.

R. Wainwright
Lieut U.S.N

From Meridian to 4 P.M.

Cloudy & raining. Light breez from N.E. Flood tide until 2 when began swinging to ebb. Finished at 2.30. Released J.A. Williams 2d C. app, his term of confinement having expired. Placed J.A. Williams 2d C. app in double irons for three days, for committing nuisance in ash box.

C.A.T. Seavey
Ensign U.S.N

From 4 to 6 P.M.

Cloudy & cool, raining, appearance. Clouds cum & cumb. Gentle breez from E.N.E. Riding to ebb. Greatest strength of current 2.2 knots.

H.T. Townsend
Ensign U.S.N.

From 6 to 8 P.M.

Overcast & raining. Light breez from N.E. Tide ebb at 6.00 mustered at quarters.

T.B. Galloway
Lieut U.S.N

From 8 P.M. to Midnight

Raining, all the watch. Light breez from N.E. Swung to flood at 10.

H.C. Seaving
Lieut U.S.N

Examined and found to be correct.

A.V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex" , 3d Rate,

At Anchor off Amoy

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Fleet			E. by E.	N. E	2			30.105	65	65	64		o.cr.	cumu	0	S.
2	"			E. by S.	"	2			30.095	66	66	64		"	"	0	"
3	E'ly			N.W.	"	2			30.045	68	66	65		"	"	0	"
4		"		"	"	2			30.045	65	66	65		b.c.	"	2	"
5		"		W. by N.	N. N. W	2			30.055	68	66	65		10.c.	cumu	0	"
6		"		West	"	1			30.065	82	65	6		"	mist	0	"
7			38.4	S. E. by E	Calm	0			30.065	80	65	6		o.cr.	"	0	"
8	5	0	43.4	E. by S.	N. N. E	3			30.025	76	65	63		"	"	0	"
9	1/2	4	50.9	E. by S.	N. E	4			30.065	76	65	64		o.cg.	"	0	M
10	5	8	56.1	"	N. E. by E	4-6			30.06	75	65	64		1.c.gru.	"	0	"
11	5	9	62.0	"	"	4-6			30.055	75	65	64		"	"	0	M-R
Noon.	2/2	9	67.9	N. E. by E	"	4-6			30.045	75	65	64		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Dg 1074 Position at Noon:
- Latitude by D. R. — N 24° 29' "
- Longitude by D. R. — E 118° 40' "
- Latitude by observations of ⊙ — ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — ° ' "

Position at 8 a. m.
- Latitude by — ° ' "
- Longitude by — ° ' "

Position at 8 P. M.
- Latitude by D.R. — 24° 52' "
- Longitude by " " — 119° 09' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 301 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 12/60 "

Coal consumed during the preceding 24 hours, 7 tons 210 lbs.

Coal remaining on hand at Noon, 149 " 1510 "

P. M.												
1	5	0	72.4	N. E. by E	N. E	5	30.00	65	65	25	o.cg.	cumu mist	0	M
2	5	4	78.1	"		4-5	29.99	65	65	35	2	"	"	0	"
3	5	5	83.6	"	N. E. by N	4-6	29.96	65	65	35	2	"	"	0	"
4	6	0	89.6	"		4-5	29.95	64	65	35	2	"	"	0	"
5	5	4	95.0	"	N. E	4-6	29.95	64	65	35	2	"	"	0	"
6	4	9	999	"		4-5	29.93	64	65	35	2	"	"	0	"
7	5	0	1049	N. E. 1/2 N		4-5	29.92	64	65	35	2	"	"	0	R
8	6	3	12.2	"		4-6	29.91	65	65	35	2	"	"	0	M
Dg 1050 9	5	8	18.0	"	N. N. E	4-5	29.91	65	65	35	2	"	"	0	"
N 25° 10	6	5	24.5	"		4-5	29.93	65	65	35	2	"	"	0	"
E 114.17 11	6	9	31.4	E. N. E. 1/4 E		4-5	29.90	65	65	35	1	"	"	0	"
Mid.	4	2	38.6	E. N. E		4-5	29.88	65	65	35	1	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday January 28th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.

Overcast, rainy weather until 3. Clearing last hour. Light breezes from N.E. At 2.25, commenced swing & at 2.45 swung to sh. at 3.55 transferred fires to boilers 2, 4, 5 & 7.

B.D. Darling
Lieut U.S.N.

From 4 to 8 A.M.

Overcast & cloudy, swing first half of watch, light airs from N.N.W. & calm. Last hour gentle breeze from N.N.E. At 6.10 got underway & stood out of harbor. At 7.20 took departure Plantain Light House bearing (fnc) N.N.W. Swing - New Light House W.N.W. & P.L. 38.1. Steered course E1/4S, until 7.40, then E1/2S until 7.50 when headed her off to 9th E., on account of apparently shoal water, ahead. At 7.55 at 1st fort hauled & sails. Draft of ship fwd 14'2" aft 16.6".

C.S.T. Secretary
Ensign U.S.N.

From 8 A.M. to Meridian

Overcast, cloudy, squally & rainy. Moderate to fresh breezes from N.E. & N.E. by N. Passed to rough sea from N.E. Ship pitching heavily at times. At 8.5 changed course to East. P.L. 40.4. At 8.26 E. by N. P.L. 46.8 & at 8.30 E.N.E. P.L. 41.2. At 8.40 sent down fore yards. Took in fore & aft sail at 8.55. At 9.5 went to quarters for inspection. At 11, changed course to N. E. by E1/2 E. P.L. 62.0. At 11.10, changed to N.E. by E. P.L. 62.9, at 11.30 changed course to N.E. 1/4 E. P.L. 64.9. Passed thro' a fleet of junks at 11.40. A.M. French steamer passed us steering to N. & E. Exchanged colors & salutes with her. At 10.5 Gold Is Light House bore (fnc) N.N.W. distant 2 miles. In getting a cast with Sir W. Thomson's Machine, carried wire away at 10 fms, on starting the reel in. Expended one leaf, one tube & one tube case. Rolled off old wire & put on 2.45 fms of new rope. At end of watch on course N.E. 1/4 E. under steam alone. Steam 55, Revolutions 47. Gold Is bore (fnc) W. 3/4 N. Land in sight all along on port hand. By order of Comdg Officer P. Pettidge, Sea 2 C, was placed on bread & water for two days for profanity & H. Schrenger, Tailor, five days in double irons for using drunk & abusive.

A.C. Poundstone
Ensign U.S.N.

From Meridian to 4 P.M.

Overcast with continuous hard rain with squalls from N.E. Lost sight of land at 12.40. Moderate sea.

E.D. Galloway
Lieut U.S.N.

From 4 to 8 P.M.

Overcast, with hard, cold rain. Moderate breeze with frequent fresh & very fresh squalls from N.E. Land in sight at times, along port beam. Moderate sea. Sounded at 7.0 & 7.30 in 22 and 23 fms black mud.

N.E. Dearing
Lieut U.S.N.

From 8 to 8 P.M.

Overcast, rainy weather. Moderate to fresh breezes from N.E. Rough increasing sea. At 6.30 sighted Ock-sen Is Light House bearing N. E. 3/8 E. at 8.00 it bore N.E. by E. Got casts of lead: at 6.30 in fms, yellow mud, at 7.30 in 4 fms, yellow mud. At 6.49 changed course to N.E. by N.

P.L. Wood
Lieut U.S.N.

From 8 P.M. to Midnight

Rainy. Wind in strong squalls from N.N.E. At 10.20 changed course to E.N.E. 1/4 E. P.L. 76.6. At 11.0 changed course to E.N.E. Ock-sen light in sight, during the watch. At 12.0 it bore S.S.W.

A.F. Teagarden
Ensign U.S.N.

Examined and found to be correct.

S.V. Wadhams. Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

at Sea making passage to Nagasaki

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	5	45.1	E N E	N by E	3-4			30.005	45	52	51	54	D.C.R.	cirro cumulus	0	S
2	6	9	52.0	"	"	2-3			30.005	45	52	51	53	"	"	0	"
3	6	5	59.5	N E by E	"	2-3			30.005	55	52	51	53	"	"	0	"
4	6	5	64.4	N by E ½ E	"	2			29.905	55	53	52	53	D.C.d.	"	0	"
5	8	0	45.4	"	N E by N	2			29.915	55	54	53	53	"	"	0	"
6	6	3	82.4	N N E	"	1-2			29.925	55	54	53	52	D.C.	"	0	"
Obs. 1057	7	6	90.2	North	"	1-2			29.935	55	54	53	53	D.C.	cumulus	3	"
N 25°-43'	8	6	92.3 98.2	N N E ½ E	"	1-2			29.965	55	54	53	53	"	"	3	"
E 120°	9	6	106.0	"	"	2			30.005	56	54	53	52	C.U.	cirrus	0	"
	10	8	0 140	"	"	3			30.005	55	54	53	52	"	"	0	S-W
	11	5	155 206	N E by N	"	3			29.985	55	53	53	52	C	"	0	"
	Noon.	6	28.1	"	"	3			29.96	56	54	53	52	"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Obs. 1057 Position at Noon:
- Latitude by D. R. — N 26° 20' "
- Longitude by D. R. — E 120° 39' "
- Latitude by observations of ☉ — bearings Sarue Dist. 10 m. pc N ½ E — N 26° 04' "
- Longitude by ~~chronometer from~~ Forenoon Observations of ☉ — bearings Sea Dog Dist W ¼ N — E 120° 14' "

Position at 8 a. m.
- Latitude by D R — N 25° 43' "
- Longitude by bearings Farewell Rock and Turnabout Isl Dist S ¾ W — E 120° 00' "

Position at 8 P. M.
- Latitude by D R — N 26° 44' "
- Longitude by ~~Obs.~~ D R — E 120° 41' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ☉ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ☉ observed at " ° ' "

Variation of the Compass by Azimuth ☉ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1460 "

Coal consumed during the preceding 24 hours, 19 tons 1400 lbs.

Coal remaining on hand at Noon, 130 " 110 "

P. M.																	
1	6	6	34.4	N E by N	N E by N	3-4			29.955	55	53	52	52	D.C.R.	cirro cumulus	0	S
2	4	1	41.8	"		3-4			29.955	54	52	50	51	"	"	0	"
3	4	1	48.9	"	E N E	3-4			29.965	54	52	50	51	"	"	0	"
4	3½	4	56.3	N N E ½ E		3-4			29.985	53	52	50	51	"	"	0	"
5	6	6	62.9	"	N E	3-4			30.005	54	52	50	52	D.C.	"	0	"
6	5	1	68.9 69.0	N E by N		4			30.005	54	52	50	52	"	"	0	"
7	6	8	75.8	"	N E by E	4-5			30.025	54	52	50	52	D.C.d.	"	0	"
8	5	1	80.9	"		4-5			30.035	55	52	50	52	"	"	0	"
9	4	4	85.6	"	N E	4-5	0		30.065	55	51	48	52	D.C.	"	0	"
10	5	4	91.0	"	"	4-5	0		30.075	54	49	47	51	"	"	0	"
11	5	6	96.6	"	"	5-6	0		30.085	54	49	46	51	"	"	0	"
Mid.	4	2 4	99.8 102.2	N E by E	"	3-5	0		30.085	54	49	46	51	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday January 29th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends A.M.

Cloudy & cool. Cloudy & rainy. Raining at 3h hours, drizzling last hour. Light to moderate breeze from N. by E. Smooth sea. Ship steady. At 2 o'clock changed course to N.E. by E. P.L. 52. Oaksen Light bearing (pc) S.W. by W. at 2h sighted Turnabout Lt. bearing (pc) N.N.E. 1/4 E. at 3h changed course to N.N.E. P.L. 80. & at 8h to N. by E. 1/2 E. P.L. 61. at 2 oc hook in fore & aft. sail. Sounding each hour. Soundings 17, 18, 23 & 25 fms. At end of watch on course N. by E. 1/2 E. under steam alone. Last sight of Oaksen Lt. bearing (pc) S.W. 1/2 W. Turnabout Lt. bore (pc) N.N.E. 1/2 E. Steam 48. Revolutions 43.

W. Saunderstone
Assign U.S.N.

4 to 8 A.M.

Overcast with light rain first hour, then wet fog & clear spaces, no rain. Very light breeze from N.E. & N.E. by N. At 5h changed course to N. 1/2 E. then N. 1/2 W. to get an offing from Turnabout Lt. Chaitan Island. Commanding Officer coming the ship. At 6h sighted light on White Dogs bearing N.W. At 6h 45m set course from. At 7h changed course to N.N.E. 1/2 E. P.L. 92. 3. Changed colors and Chinese Junk at 4h & 5h got casts Thomson's Machine 35 & 38 fms by the register. At 6h slowed down & stopped engine, on account of broken water caused by tide rip. At 7h went ahead on course Torch. At 8. Warning Rocks bore (pc) W. 1/2 S. Turnabout Island S. by W.

C. P. Galloway
Asst U.S.N.

4 to 8 A.M. to Meridian

Cloudy with mist first two hours. Moderate breeze from N.E. by N. Sea smooth. After passing White Dogs saw into a moderate swell from N.E. Lt. 2 quarters. At 10h White Dogs Lt. bore N.W. by W. 1/2 W. (mag). At 10h changed course to N.E. by N. P.L. 105. At 11h sighted Alarm & Tung Yung Islands & 11h Alligator Isd. At 12h Alarm Id bore N. 1/4 E., Tung Yung N.E. 1/2 N. & Alligator N.E. by E. 1/2 E. (mag).

H. C. Gearing.
Lieut U.S.N.

4 to Meridian to 4 P.M.

Overcast with intermittent drizzling rain. Made to moderate breeze from N.E. by N. and E.N.E. At 1.48 Alligator Rocks bore S.E. 3/4 E., distant 6 miles. At 3.30 changed course to N.E. 3/4 E. at 3.38 to N.N.E. At 4h on Tung Yung bore S.E. 3/4 E., distant 1 mile. Heavy ground swell from E.N.E.

F. Wenger
Lieut U.S.N.

4 to 8 P.M.

Overcast & cloudy. Gentle to moderate breeze from N.E. Smooth sea from E. At 5h changed course to N.E. by N. P.L. 63. 9. Under steam alone. Several islands in sight during watch.

C. A. F. Mayhew
Assign U.S.N.

8 P.M. to Midnight

Cloudy & cool with occasional light drizzle. Breeze comes & comes. Moderate to stiff breeze with moderate sea from N.E. by E. Ship rolling easily. At end of watch on course N.E. by N., under steam alone. Steam 46. Revolutions. At 6.30 lost sight of Tung Yung Isds bearing (pc) S.S.W.

W. Saunderstone
Assign U.S.N.

Midnight to 4 A.M.

Cloudy & cool. Stiff to fresh breeze from N.E. Moderate sea with wind. At 11h sighted land bearing about N.N.W. At 11.30 changed course to N.E. 3/4 E. Sounded at 8, 9, 10 & 11h in 22, 23, 23 & 24 fms, bottom, soft yellow mud. Land bearing about N.W. by W. at 12h

H. C. Gearing.
Lieut U.S.N.

Examined and found to be correct.

A. V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Sea making passage to Nagasaki

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	7	6.9	N.E.3/4.E.	N.E.	3-5			30.125	48	46	51		o.c.d.	cumu	1	M
2	4	9	11.2	"	N.N.E.	5-7			30.125	48	46	51		"	"	0	M.R
3	4	7	15.9	"	"	5-8			30.115	48	46	51		o.c.r.	cumu	0	R
4	4	4	20.3	"	"	5-8			30.085	47	46	51		"	"	0	"
5	4	0	24.3	"	N.E.by.N.	4-6			30.075	47	45	54		o.c.d.g.	"	0	M
6	4	2	28.5	"	"	5-6			30.095	47	46	54		"	"	0	"
7	5	7	34.2	"	"	4-6			30.115	46	45	54		"	"	0	"
8	6	0	40.2	"	"	4-6			30.125	45	43	54		"	"	0	"
9	6	4	46.6	"	N.N.E.	4-6			30.095	48	45	45	54	"	"	0	M-N
10	5	2	50.8	"	"	4-6			30.095	48	46	46	56	o.c.r.g.	"	0	"
11	4	5	55.3	"	"	4-6			30.075	48	45	45	54	"	"	0	"
Noon.	5	2	60.5	"	N.by.E.	4-6			30.075	47	45	43	52	o.c.g.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. N 24 ° 16 ' "

Longitude by D. R. E 121 ° 31 ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

7.1051

Position at 8 a. m. Latitude by DR N 24 ° 13 ' "

Longitude by do E 121 ° 31 ' "

Position at 8 P. M. Latitude by do N 24 ° 29 ' "

Longitude by do E 122 ° 11 ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water ——————— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1160 "

Coal consumed during the preceding 24 hours, 16 tons 1230 lbs.

Coal remaining on hand at Noon, 113 " 1120 "

P. M.														
1	5	0	65.6	N.E.3/4.E.	North	4-7	4	30.06	47	45	46	60	o.c.g.	cumu	1	M-N
2	6	0	71.5	N.E.by.E.3/4.E.	"	4-7	4	30.06	47	45	46	60	"	cir-cumu	1	"
3	5	8	77.3	"	"	4-7	4	30.04	47	45	46	60	"	"	1	"
4	5	2	82.5	"	N.by.E.	3-6	6	30.04	47	45	47	60	"	"	1	"
5	5	8	88.3	"	N.N.E.	4-6		30.06	47	45	47	60	o.d.g.	cumu	1	"
6	5	8	93.6	"	"	4-6		30.04	47	46	45	60	"	"	1	"
7	6	4	100.0	"	N.by.E.	3-5		30.09	48	46	45	60	"	"	1	"
8	5	8	05.8	N.E.by.E.1/4.E.	"	3-5		30.12	48	48	45	60	"	"	1	"
9	5	5	11.3	"	"	4-6		30.12	49	48	46	60	"	cumu	0	R
10	5	8	17.1	N.E.by.E.	"	4-6		30.12	51	48	46	60	"	"	0	"
11	6	2	23.3	"	"	4-6		30.12	52	48	46	61	o.c.g.	"	0	"
Mid.	6	5	29.8	"	"	4-6		30.10	53	48	49	61	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday January 30th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Commences and Ends at 4 A.M.

Cold, wet, disagreable weather. Gentle to stiff breezes from N.E. Stiff breezes to moderate gale from N.N.E. Long rough sea from N.N.E. Ship pitching deeply. At 1.45 lost sight of Island in a rain squall. Under steam, alone steering a course N.E. by N.

B. F. Davis
Lieut U.S.N.

From 4 to 8 A.M.

Overcast and cloudy weather, drizzling rain. Fresh Moderate to fresh breeze from N.E. by N. Moderate sea. Ship pitching moderately. At 5 sights High land in sight forward of port beam. Steering a course N.E. 3/4 E. Steam 50. Revolutions 46

C. F. Secretan
Ensign U.S.N.

From 8 A.M. to Meridian

Cloudy and cool. Dense weather. Raining continuously this last hour. Moderate to fresh breeze from N.N.E. and N. by E. Moderate to heavy short sea from N.N.E. the vessel ship pitched 5° at times. At 11 am set fore staysail main trysail and spanker. At end of watch under fore and aft sail and steam, on course N.E. 3/4 E. Steam 51. Revolutions 46. Released P. Pettridge, 2 C. Seaff, and J. A. Williams, 2 c. apps, the terms for which they were confined having expired.

H. Towndrow
Ensign U.S.N.

From Meridian to 4 P.M.

Cloudy and cool. Wind freed and from N. by E. last hour, moderate in gusts and blowing very fresh in squalls. Moderate, heavy sea. Ship plunging deeply at times. At 1 pm changed course to N. E. by E. 3/4 E. Temperature sea water rose from 55 to 60° between 2 and 3 P.M. A steamer standing to S. in sight at end of watch. Under steam, fore topmast staysail, main trysail and spanker

H. Clearing
Lieut U.S.N.

From 4 to 6 P.M.

Overcast and dark, drizzling rain. Moderate to fresh breezes from N.N.E. Moderate to heavy sea from N.E. by N. At end of watch under steam fore topmast staysail main trysail and spanker. Steering a course N.E. by E. 3/4 E. At 5.30 started fires in boilers 1 and 3 for distilling

B. F. Davis
Lieut U.S.N.

From 6 to 8 P.M.

Cloudy with drizzling rain at intervals. Wind in squalls from N.E. varying from gentle to stiff. Moderate sea. Ship pitching and rolling easily. Under steam, fore staysail, main trysail and spanker. At 7 pm changed course to N.E. by E. 1/4 E.

C. F. Secretan
Ensign U.S.N.

From 8 P.M. to Midnight

Overcast, cloudy and cold. Drizzling first part. Dense mist. Moderate to fresh breeze in squalls from N. by E. Rough sea from N.N.E. to which ship knocked about considerably. Started distilling at 8 pm from boilers 1 and 3. At end of watch steering N.E. by E. (course N.E. 3/4 E.) under fore and aft sail and steam. Steam 49. Revolutions 44

H. Towndrow
Ensign U.S.N.

Examined and found to be correct.

A. V. Wadhams. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Nagasaki

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	5	2	35.5	N. E by E	N by E	4-6	4		30.07	65	74	74	60	o.c.q.	cumh	0	M
2	5	3	40.8	"	"	4-6	4		30.06	65	74	74	60	"	"	0	"
3	5	0	46.8	N. E 3/4 E.	"	4-6	4		30.05	65	74	74	60	o.c.d.q.	"	0	"
4	4	2	50.5	N. E by E	"	4-6	4		30.04	65	74	74	60	"	"	0	"
5	5	2	55.7	N. E. 1/2 E.	North	5-4	5	1/4	30.04	65	74	74	60	"	"	0	M
6	5	5	60.7	"	N by W	5-8	5	1/4	30.03	65	74	74	60	"	"	0	"
7	5	4	66.1	"	"	5-8	5	1/2	30.06	65	74	74	59	"	"	0	"
8	5	2	71.3	"	"	5-4		1/2	30.10	65	74	74	59	"	"	0	"
9	4	2	76.5	"	North	4-6		1/2	30.11	65	74	74	60	"	"	0	"
10	4	2	80.2	"	"	4-6		1/2	30.12	65	74	74	59	"	"	0	"
11	4	4	84.6	"	"	4-6		1/2	30.15	65	74	74	59	o.c.q.	"	0	"
Noon.	4	3	88.9	"	"	4-6		1/2	30.15	65	74	74	59	"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. — N 28° 00' "
- Longitude by D. R. — E 123° 19' "
- Latitude by observations of ⊙ — N ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E ° ' "

Position at 8 a. m.:
- Latitude by D R — N 27° 52' "
- Longitude by do. — E 123° 05' "

Position at 8 P. M.:
- Latitude by do — N 28° 27' "
- Longitude by Fore P M do do — E 124° 01' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, ~~300~~ gallons.

Water Distilled during the preceding 24 hours, 1640 "

Water remaining on hand fit for use at Noon, 25000 "

Coal consumed during the preceding 24 hours, 17 tons 2030 lbs.

Coal remaining on hand at Noon, 95 " 1330 "

P. M.														
1	4	0	92.7	N. E. 1/2 E.	North	5-4	30.09	65	74	59	o.c.q.	cumh	0	M
2	4	0	96.4	"	"	4-6	30.07	65	74	59	"	"	0	"
3	5	1	101.5	"	"	4-4	30.06	65	74	60	"	"	0	"
4	6	0	106.4	"	"	6-4	30.05	65	74	60	"	cir cumh	0	"
5	4	3	10.7	"	"	6-4	30.06	65	74	60	o.c.q.		2	"
6	5	1	15.8	"	"	4-4	30.06	65	74	60	"	"	1	"
7	5	1	20.9	"	"	4-3	30.03	65	74	60	o.c.q.	cir cumh	0	RL
8	4	4	25.3	N. E. 1/2 N.	"	4-6 0	30.01	65	74	60	"	"	0	"
9	4	3	29.6	"	"	4-4	30.16	65	74	60	o.c.q.	"	2	"
10	4	8	34.4	"	"	4-4	30.14	65	74	59	"	"	2	"
11	5	0	39.4	"	"	4-4	30.15	65	74	59	"	"	2	"
Mid.	4	7	44.1	"	"	4-4	30.14	65	74	59	o.d.q.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday January 31st, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A M.

Overcast. Light drizzling rain last part. Moderate breeze from N by E, blowing fresh in squalls. Moderate sea. No change in steam or sail. Distilling.

H. C. Searing
Lieut U. S. N

From 4 to 8 A M

Overcast misty weather with drizzling rain. Stiff to fresh breeze from North. Stiff breeze to moderate gale from N by W. Heavy sea. Under steam, ft & M staysail, M trysail and spanker. Steering by the wind Pilot 4:20 when set course N E 1/2 E. Distilling.

Thos W Keeling
Lieut U. S. N

From 8 A M to Meridian

Overcast cloudy & squally with occasional drizzling rain. Wind moderate to fresh from North. Moderate sea. Under steam, fore trust & staysail, Main trysail & spanker. Course N E 1/2 E. Distilling.

C. A. T. Jeffryes
Ensign U. S. N

From Meridian to 4 P M

Overcast cloudy & cool. Moderate to stiff breeze from North increasing frequently to fresh breeze in squalls. Short heavy sea from North with cross sea from N N W. Ship rolling & pitching heavily at times. Greatest lee roll 35°, weather 8. Greatest pitch 13°. At 12° hauled fires in boilers 6 & 8, on account of increased leak. At 30 stopped distilling & connected boilers 1 & 3 for steaming. At end of watch on course N E 1/2 E, under steam, ft & M staysail, Main trysail & spanker. Steam 4. Revolutions 37.

L. C. Townsend
Ensign U. S. N

From 4 to 6 P M

Squally, overcast. Moderate gale from North. Moderate to heavy sea. At 5:40 got cast Thomson Machine to fair soft mud.

C. G. Calloway
Lieut U. S. N

From 6 to 8 P M

Cloudy & pleasant. Moderate to stiff breeze from North, freshening last hour. Rough irregular sea. At 7:00 changed course to N E 1/2 N & at 7:10 took in fore & aft sail. Steam under six boilers.

H. C. Searing
Lieut U. S. N

From 8 P M to Midnight

Squally, overcast. Moon occasionally visible through clouds. Moderate to fresh breeze from North. Heavy sea from North. Drizzling rain last hour. Steering a course N E 1/2 N, under steam, alm[ost] Sighted a steamer standing to S & W.

B. F. Davis
Lieut U. S. N

Examined and found to be correct.

A. W. Marbaner. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Nagasaki

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	9	49.0	N.E.½.N	N. by E.	4-6			30.135	+8	+55	9		C. qp.	cirrus	0	
2	5	3	54.3	"	N.E. by N.	4-6			30.145	0	+4	+4	+60	o.c.d.q.	"	0	"
3	4	9	59.2	"		4-6			30.149	+4	+4	+4	+60	o.c.q.	"	0	"
4	4	8	64.0	"	N.N.E.	4-6			30.149	+6	+4	+4	+60	o.c.h.q.	"	0	"
5	4	9	68.9	"	N. by E.	4-6			30.139	+6	+4	+4	+60	"	cumulus	0	R
6	5	0	73.5	"		4-6			30.138	+6	+4	+4	+60	b.c.q.	"	1	"
7	4	5	77.9	"	North	4-6			30.138	+6	+4	+3	59	"	"	1	"
8	6	2	84.1	"	"	4-6			30.154	+6	+4	+5	59	b.c.q.d.	cirrus cumulus	2	"
9	6	0	90.1	"		5-6			30.144	+6	+4	+5	+60	"	cumulus	1	N.R
10	6	4	96.5	"	N.N.E.	5-6			30.144	+4	+4	+4	+60	o.c.d.q.	"	0	"
Dy.1052 11	6	4	102.9	"	N. by E.	5-6			30.144	+4	+4	+4	+60	b.c.d.q.	"	1	"
N 24°.22 Noon.	4	5	107.4	"		4-6			30.138	+4	+4	+4	+60	b.c.q.	"	1	"
E 125°																	

Course and distance made good since preceding noon by observations,

		knots	tenths.
Dy. 1052 Position at Noon:	Latitude by D. R.	N 29° 44'	"
	Longitude by D. R.	E 125° 25'	"
	Latitude by observations of ⊙	N 29° 22'	"
	Longitude by chronometer from Forenoon Observations of ⊙	E 125° 01'	"
Position at 8 a. m.	Latitude by D.R.	N 29° 03'	"
	Longitude by Chro. do do do	E 124° 43'	"
Position at 8 P. M.	Latitude by D.R.	N 30° 04'	"
	Longitude by Chro. Obs. do do	E 125° 44'	"

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 300 "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, 14 tons 1820 lbs.

Coal remaining on hand at Noon, 80 " 1750 "

P. M.														
1	6	3	169	N.E.½.N	N.N.	N. by W.	5-6	0	30.154	+4	+4	+3	60	b.c.q.	cumulus	1	R
2	4	3	24.2	"	"		5	0	30.134	+4	+4	+4	+58	"	"	1	"
3	4	4	31.6	"	"		4	0	30.124	+4	+4	+4	+58	"	"	3	"
4	6	9	38.5	"	"		3-5	0	30.114	+8	+4	+6	+58	"	"	3	"
5	6	0	44.5	"	N. by W.		4-6		30.124	+8	+4	+6	+57	"	"	3	M
6	6	5	51.0	"	"		4-6		30.134	+8	+4	+6	+58	b.c.h.q.	"	4	M.R
Dy.1032 N 30 7	6	6	57.6	"	N. by E.		3-5		30.124	+8	+4	+6	+58	b.c.h.	"	4	"
E 125°.43 8	6	8	64.4	"	"		3-5		30.134	+8	+4	+6	+58	"	"	1	"
9	6	4	71.4	"	"		3-4		30.150	+4	+4	+5	+58	b.c.h.q.	cumulus cirrus cumulus	5	M
10	7	0	78.8	"	"		3-5		30.174	+4	+4	+6	+58	"	cumulus cumulus	3	"
11	7	4	86.2	"	"		3-5		30.144	+4	+4	+4	+57	"	"	4	"
Mid.	7	6	93.7	"	"		3-5		30.144	+4	+4	+4	+57	"	"	4	"

under the command of Commander T. F. Jewett, U. S. Navy,

Tuesday February 1st, 1859.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences with Cloudy & A. M.

Cloudy with drizzling rain at intervals. Wind moderate to fresh from N. by E. to N. E. by N. Course N. E. ½ N. under steam alone.

C. S. T. Jewett
Ensign U. S. N.

From 4 to 8 A. M.

Cloudy and cold. Drizzling rain 1st & last hours. Cloudy cum cir-cum & cumb. Moderate to fresh breze from N. by E. first part & North latter part. Rough sea from N. by E. to which ship rolled & pitched considerably. Set fore & aft sail at 6 30. Latter end of watch on course N. E. ½ N. under steam, fore topsail, main trysail & Spanker. Reefs.

T. T. Young Stone
Ensign U. S. N.

From 8. A. M. to Meridian

Cloudy & cool. Stiff to fresh breze from N. by E. to N. N. W. Light rain squalls first part. Clearing latter part. Got casts lead Thomsons Machine at 9 00 & at 12 00 43 & 44 fms. fine black sand. Ship pitching deeply at times but easily at 11 30. Sets jib. A quantity of coffee was brought to mast as being unfit for use. It was withdrawn from issue & other substituted, to await action of the Paymaster with regard to returning it to contractor.

E. B. Calloway
Lieut U. S. N.

From Meridian to 4 P. M.

Generally fair. Sea. Moderate to stiff breze from N. N. W. Moderate Sea. Course N. E. ½ N. Exchanging in steam & sail.

Alex. Gearing.
Lieut U. S. N.

From 4 to 6 P. M.

Cloudy & cold weather. Moderate to fresh breze in squalls from N. by W. Moderate sea with long swell. At 5 00 quarters at quarters. By order of Surg's Office empties N. Solan Goose 2 ps. for two days in bread & water for insolence to Officer of deck. At end of watch under steam, fore topsail, main trysail & Spanker.

B. Gesner
Lieut U. S. N.

From 6 to 8 P. M.

Generally cloudy with passing rain showers. Wind gentle to stiff from N. by E. Moderate sea. At 6 00 took in fore & aft sail.

C. S. T. Jewett
Ensign U. S. N.

From 8 P. M. to Midnight

Cloudy & cold. Cloudy cir-cum cum & cumb, wind moving from N. N. E. Gentle breze from N. by E. increasing in occasional rain squalls to stiff breze. Bright Moonlight frequently obscured by rain clouds. Moderate sea & swell from North. On course N. E. ½ N. under steam alone. Steam 6 P. Regulations 4 P.

T. T. Young Stone
Ensign U. S. N.

Examined and found to be correct.

A. K. Markham. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Tsuruga passage to Nagasaki

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	2	100.9	N.E.½N.	N.N.E.	4			30.14	49	44	45		b.c.q.	cum. cumb.	3	M
2	7	4	108.3	"	"	3-5			30.12	49	44	45		"	"	5	"
3	7	1	16.0	"	"	3-5			30.12	49	44	45		"	"	4	"
4	7	5	23.5	"	"	3-5			30.11	49	43	44	54	"	"	6	"
5	7	0	30.5	"	North	3	0		30.11	49	46	44	54	b.c.	"	6	"
6	7	4	34.9	"	N.by.E	2	0		30.12	49	44	44	54	"	"	6	"
7	8	0	45.9	"	North	3	0		30.13	49	44	45	54	"	"	3	"
8	8	1	54.0	"	"	2	0		30.25	04	48	43	60	"	"	2	"
9	8	0	62.0	"	"	2-4			30.35	04	49	45	61	b.o.q.	cir-cum. cumb.	2	"
10	8	0	70.0	"	N.by.E	2-4			30.35	14	49	44	56	1	"	2	"
11	7	3	77.3	"	N.N.E.	2-4			30.35	24	49	45	56	1	"	2	"
Noon.	8	3	85.6	"	"	3-4			30.15	24	49	46	62	b.c.p.q.	"	2	"

Course and distance made good since preceding noon by observations, N.W.¼N. 17¼ knots. tenths.

Position at Noon:
- Latitude by D. R. — N 31° 38' "
- Longitude by D. R. — E 124° 11' "
- Latitude by observations of ⊙ — N 31° 31' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 124° 18' "

24.1032

Position at 8 a. m.:
- Latitude by D R — N 31° 04' "
- Longitude by Chro Do Do Do — E 126° 55' "

Position at 8 P. M.:
- Latitude by D R — this following bearings & distances N. end of O Sima S.E.½E 8 miles; W. end of Ma Sima bore by Sty E.½E. 6 miles — N 32° 08' "
- Longitude by bearings & distances — E 128° 18' "

Current during the time, knots 3/ tenths per hour, setting to the S.E.½S.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8h 29m " N.E.½N. — W 3° 34' "

Water expended during the preceding 24 hours, 300 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 14 tons 170 lbs.

Coal remaining on hand at Noon, 66 " 1580 "

P. M.														
1	6	9	93.6	N.E.½N.	North	3		30.10	50	48	45	61	o.c.	cumx cumb.	0	N.R.
2	8	2	101.8	"	"	3		30.08	51	49	46	61	o.c.p.	"	0	"
3	8	1	9.9	"	"	2-4		30.08	50	48	45	61	"	"	0	"
4	8	0	17.9	"	N.by.E	2-4		30.08	49	44	44	63	"	"	0	"
5	4 1/2	3 1/2	22.4 23.5 24.3	N.E.½E.	"	2-4		30.07	49	46	44	62	"	"	0	"
6	5 2	6 1	30.9 33.4	N.E.½E. 3/4 E.	"	3-4		30.09	48	46	44	62	o.c.r.	"	0	"
7	8 6	6 6	42.3 48.9	"	"	3-4		30.11	48	46	44	62	"	"	0	"
8	2	3	51.2	N.E.by.E	"	3-5		30.13	48	46	44	62	"	"	0	"
9	9	1	60.3	"	North	3	0	30.13	48	46	45	62	"	"	0	"
10	1 6	1 4	61.4 66.2	N.E.½E. 3/4 E.	"	3	0	30.12	48	46	44	63	"	"	0	"
11	9	4	79.0	E.N.E.	N.E.	3	0	30.11	48	46	44	63	"	"	0	"
Mid.	9	6	88.6	"	"	3	0	30.10	48	46	44	63	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday February 2d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & Unfit & A. M.

Fair dry & cool. Moderate breze with occasional stiff squalls from N. N. E. Sea moderate & decreasing. Room set about 12 oc.

C. C. Galloway Lieut U. S. N

From 4 to 8 A. M.

Fair cool weather. Light breze from North & N by E. Smooth sea with gentle swell from North. Passed a steamer bound S. Steam, alone, six miles.

H. C. Gearing Lieut U. S. N

From 8 A. M. to Meridian

Overcast cold weather. Light to moderate breze in squalls from North to N. N. E. At 9:20 inspected at quarters. Exercised 1st & 2d divisions of the watch at single stick. By order of Commdg Officer released H. Schrunger Sailr, his term of confinement having expired. Under steam alone. Steering a course N. E. ½ N. At 10:24 set clock ahead nine minutes

P. H. Wallace Lieut U. S. N

From Meridian to 4 P. M.

Overcast & cloudy with passing showers last three hours. Light to moderate breze from North & N. by E. At 12 oc changed course to N. E. ½ E. At 1:30 hook in & at 3 oc set fore & aft sail.

A. T. Foshutz Ensign U. S. N

From 4 to 6 P. M.

Cloudy & cold with passing showers 1st hour. Raining continually 2d hour. Light to moderate breze from N. by E. Smooth sea & moderate swell from North. Ship steady. At 4:40 changed course to N. E. by E. ½ E. P. L. 222. At 4:48 sighted South end of Nea Lima Group bearing (p.c) E ½ N. & changed course to E. N. E. P. L. 235. At 5h sighted Asses Ears & North Isles of Group, bearing about E ¼ S (p.c). At 5:40 changed course to E. by E. ¾ E. P. L. 309. At end of watch in course N. E. by E. ¾ E. South Isle of Nea Lima Group bore (p.c) E ¾ S. Under steam & fore & aft sail. Steam 50 Revolutions 45.

A. C. Fourgeaud Ensign U. S. N

From 6 to 8 P. M.

Overcast & raining. Moderate breze from N. by E. Smooth sea. Nea Lima Islands in sight on starboard bow & beam. At 8 Asses Ears bore (p.c) S. E by S.

C. C. Galloway Lieut U. S. N

From 8 P. M. to Midnight

Cloudy with light rain. Gentle breze from North to N. E. Smooth sea. At 9 oc sighted Goto Islands Light bearing N. by E ½ E. (mag). At 9:8 changed course to N. E. by E ¼ E. P. L. 614. & at 9:19 to E. N. E. P. L. 632. At 10 oc lost sight of Nea Lima Islands bearing S. W. ½ S. At 10:35 hook in fore & aft sail. At 10:48 Goto Island Light abeam. At 12 oc Goto Islands Light bore N. W. ½ W. with loom of land N by W.

H. C. Gearing Lieut U. S. N

Examined and found to be correct.

A. T. Mahan Lieut U. S. N Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Learning passage to Nagasaki.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
A. M.																	
1	9	1	94.4	E.N.E.	N.by.W.	3-5			30.10	48	64	46		2 cm.c.g	cum.	0	S.
2	9	1	6.8	"	"	3-5			30.08	49	62	56		1 o.c.g.	"	0	"
3	8	1/2	15.5	"	"	3-6			30.08	49	62	56	61	-	"	0	"
4	3/2	0 3	24.1	N.E.by.E.1/2.E.	"	3-6			30.08	49	62	56	61	o.c.m.g	"	0	"
5	3/6	2/	30.1	N.E.by.E.1/2.E. N.E.1/2.E.	N.W.	2-4			30.02	49	62	56	59	"	"	0	"
6				"	"	2-4			30.02	49	62	56	59	o.c.	"	0	"
7	Standing off & on.				"	3			30.14	49	62	56	59	"	"	0	"
8					N.N.W.	3			30.12	49	62	56		o.c.r.	"	0	"
9					N.N.E.	3			30.14	49	63	62		o.c.d.	"	0	"
10	Ebb			N.by.E.	North	2			30.13	49	63	61		o.c.	"	0	"
11	"				N.by.E.	2			30.12	49	63	61		"	"	0	"
Noon.	"			N.by.W.	North	2			30.10	49	63	61		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ~~D.R.~~ the following bearings. N 32° 34' "
- Longitude by bearing of Iwo Saki Point East & Iwo Jima Light bore N.by.E.-E. 129° 31' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1550 "

Coal consumed during the preceding 24 hours, 11 tons 1940 lbs.

Coal remaining on hand at Noon, 54 " 1880 "

P. M.														
1	Ebb			North	North	3			30.04	50	65	62	o.c.	cir cum clo	2	S
2	"			"	"	3			30.06	50	64	60	"	"	2	"
3	"			"	"	3			30.06	50	65	62	"	"	6	"
4	"			"	"	3			30.06	49	64	61	"	"	4	"
5					N.N.W.	3			30.06	48	64	60	"	strat clou	4	"
6		36.0		S.W.by.W.	"	3-4			30.04	48	63	60	"	"	2	"
7	2/	5	43.5	"	"	3-4			30.06	46	63	60	"	"	2	"
8	6	9	50.4	"	N.W.by.W.	3-4			30.08	46	64	60	"	cir mulk	1	"
9	3/4	9	04.9	S.by.W.	N.by.W.	3			30.04	50	64	60	"	-	1	"
10	4	8	59.4	"	N.N.W.	3-4			30.08	50	64	60	"	"	1	"
11	6	0	65.4	"	N.W.	4			30.06	50	64	60	"	"	2	"
Mid.	6	0	71.5	"	N.W.by.W.	4			30.06	50	64	60	"	"	2	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday February 3d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 A. M.

Overcast, cool weather with passing rain squalls second & third hours. Gentle to fresh breeze in squalls from N. by W. At 2:40 sighted Nagasaki Light bearing N. E by E 3/4 E. At 3:20 changed course to N. E by E 1/2 E. At 3:25 to N. E by E 1/4 E. At 4:00 set course N. E 1/2 E & slowed to speed of five knots. Nagasaki Light House bearing N. E by E 1/2 E, distant 8 miles. Under steam, plane, Sea smooth.

B. F. Wagner
Lieut U. S. N

From 4 to 8 A. M.

Overcast & cloudy. Last hour rainy. Gentle to moderate breeze from N. N. W. & N. W. At 5:10 slowed down, stood off & on Nagasaki waiting for daylight. At 6:00 sent up lower yards.

C. A. F. Dechaize
Ensign U. S. N

From 8 A. M. to Meridian

Overcast, cloudy. Fired 2 rigging 1st hour. Light to gentle breeze from North to N. E. Squalls cum-nimb. At 8:05 called all hands & sent up topsail yards. Steaming into harbor of Nagasaki in charge of Pilot Officer. Iwa Jima Light House bore abeam at 8:40. At 9:20 came to in 5 fms water with starboard anchor, veering to 30 fms. Bent topsails & sent up topgallant masts. Sent an officer to communicate with U. S. Consul. Bearings at anchor: Minago Pt S. W. by W. 1/4 W. (5 m), Omura Creek S. by E. 3/4 E (5 m). Received an official visit from H. M. S. Firebrand with usual offers of courtesy. At 9:35 hauled fires in boilers 3 & 4 & banked them in. Draft of ship 13' 2" fwd, 15' 7" aft. At 10:40 U. S. Consul came on board, accompanied by Lieut Jewell U. S. N late Charge d'affaires to Korea. Made preparations for coaling. Coal came alongside at 11:00. Commenced coaling at 12:00. At 11:35 Pilot Officer left ship to pay official visit. U. S. Consul left ship at 11:45. Commanding Officer returned at 12 o'clock.

C. A. F. Dechaize
Ensign U. S. N

From Meridian to 4 P. M.

Generally clearing, cool weather. Gentle to moderate breeze from North. At 12:00 started fires in boilers 6 & 8. Received 2 3/4 tons of coal in Equipt Dept. Pilot Officer of H. M. S. Firebrand paid official visit to ship. Discharged by reason of non regulation S. Kuzuko 2 Cls, by order of Pilot Officer.

* At 3:00 fires were hauled & steam blown off 6 & 8 boilers because of blowing out of some tubes in No 8 & the tagging thereon being found smouldering.

C. F. Pomeroy
Ensign U. S. N

C. S. Galloway
Lieut U. S. N

From 4 to 6 P. M.

Cloudy & cool. Gentle breeze from N. by W. At 4:05 quarters. At 4:15 all hands underway. Underway at 4:30. Stood out of Nagasaki harbor under charge of Pilot Pilot. At 6:00 Iwa Jima Lt. H. S. distance 1 1/2 miles. P. L. 26. Set course S. W. by W. Draft of ship fwd 14', aft 16'.

N. Ludlow
Lieut U. S. N

From 6 to 8 P. M.

Cloudy & cool weather. Gentle to moderate breeze from N. W. by W. At 7:30 banked fires and uncoupled propeller. Sent up topgallant yards. Set spritsail, fore & main topsails and main topgallant sail. At 8: Iwa Jima Lt House bore N. E by E and Iwo Saki Point East distant.

B. F. Wagner
Lieut U. S. N

From 8 P. M. to Midnight

Cloudy & cool. Gentle to moderate breeze from N. by W to N. W by W. At 8:10 changed course to S. by W, P. L. 51. At 8:50 lost sight of Nagasaki Light. Released C. W. Solace, Seaman 2 c, from confinement by order of Pilot Officer.

C. A. F. Dechaize
Ensign U. S. N

Examined and found to be correct.

A. T. Wadhams
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	6	248.1	S. by W.	N.W. by N.	4-5			30.06	49	64	62	63	b.c.	cumm	4	
2	7	3	84.6	"	"	4-5			30.06	49	64	62	62	"	"	2	"
3	7	8	92.2	"	N.W.	4-5			30.06	49	64	62	62	b.c.	"	0	"
4	8	4	100.8	"	"	5			30.06	49	64	62	62	b.c.sh.	"	0	"
5	7	8	8.6	"	"	4			30.10	49	64	62	62	b.c.	cumm cumm st.	2	"
6	6	1	14.7		"	4			30.09	49	64	62	62	"	"	2	"
7	2 2	2 6	16.9 19.5	W. by W. S.E. by E.	N.N.W.	6-7			30.09	48	64	61	61	"	"	1	"
8	3	3	23.8	E. by E.	"	7-8			30.11	50	64	64	61	"	"	2	"
Dy 1033	4	8	30.6														
N 30-57	9	10	41.3	"	"	6	0		30.11	51	49	46	61	"	cumm	4	"
2130	10	0	51.3	"	"	6	0		30.11	51	49	46	63	"	cumm	3	"
	11	5	61.8	S.E. by E. E.	"	5	0		30.10	51	49	46	62	"	"	3	"
	Noon.	3	3	70.2	S.E. by E.	"	5	0	30.10	52	50	47	64	"	"	3	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by ~~Bearings of~~ Iwoga Sima bore S.W. 1/4 W. N 31 ° 04' "
- Longitude by ~~Bearings of~~ Idzuma Saki ~~from Forenoon Observations of ⊙~~ E. E 130 ° 20' "

Dy 1033

Idzu Sima S.W. 1/4 S. = Saki Sima N.E. 1/4 E.

Position at 8 a. m.:
- Latitude by bearings of Iwo Sima bore S. by E. 3/4 E. N 31 ° 25' "
- Longitude by Chro Forenoon observation of ⊙ E 129 ° 40' "

Position at 8 P. M.:
- Latitude by D R N 31 ° 16' "
- Longitude by Chro P. M. do do E 131 ° 43' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Distilled during the preceding 24 hours, 1050 "

Water remaining on hand fit for use at Noon, 23000 "

Coal consumed during the preceding 24 hours, 8 tons 800 lbs.

Coal remaining on hand at Noon, 120 " 460 "

P. M.											
1	11	0	88.3	S. E. by E.	N. by W.	5-6	30.07	52	49	46	63	b.c.q.	cumm	3	
2	5 3	6 0	98.9 94.0	S.E. by E.	"	5-6	30.05	50	48	45	61	"	cir cumm	6	"
3	9	9	103.9	"	N. N. W.	4-5	30.05	52	48	45	63	"	"	8	"
4	3 6	2 0	13.1	E. by E.	"	4-5	30.04	53	49	45	64	"	"	9	"
5	9	2	22.0	"	N. W. by N.	4-5	30.04	53	49	45	64	"	"	7	"
6	10	0	32.3	"	"	5-6	30.04	53	49	46	68	"	"	7	"
7	9	5	41.8	"	N. N. W.	6-7	30.06	51	48	45	68	"	"	8	"
8	8	5	50.3	"	N. by E.	4-5	30.06	52	50	46	68	"	"	5	"
9	3	4	54.1	N. E. by E. 1/2 E.	"	4-6	30.08	55	50	46	64	"	"	4	"
10	6	1	63.2	"	"	5-7	30.06	55	49	46	64	"	"	5	"
11	6	9	69.1	"	"	5-7	30.04	54	48	46	66	"	"	5	"
Mid.	5	9	75.0	"	"	5-7	30.03	54	48	46	66	"	"	6	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday February 4th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends A. M.

Cloudy and cold, rainy appearances. Drizzling rain with a light fall of hail last hour. Moderate to stiff breeze from N. W. by N. and N. N. W. Moderate sea and swell from N. W. Ship pitching easily. At 1st sighted land on port bow, bearing about S. by E. ½ E. (p.c.). At end of watch land bore abeam E. by S. p.c. At end of watch, on course S. by W., under plain sail to top gallant sails except spanker. Fires banked, propeller uncoupled. Settling.

Ensign U. S. N.

From 4 to 8 A. M.

Cloudy and pleasant. Fresh breeze to moderate gale from N. N. W. At 5th took in top gallant sails, hauled up foresail. At 6th hauled by wind on starboard tack to await daylight. Spread fires and coupled propeller. At 6.45th shook out reefs, made top sails, foresail and main top gallant sails and stood course S. E. by E. Steam and sail. At 7th changed course to S. E. by E. ½ E., at 7.20th to S. S. E. at 7.45th Take Sima bore (p.c.) E. by N. Kuro Sima S. by E. ½ E., Ode Sima S. W. by S. Sea moderate. At end of watch steam as in boilers and sail as above. Land in sight along starboard beam ahead and on starboard bow.

Lieut U. S. N.

From 8 A. M. to Meridian

Fair, cool and pleasant. Very fresh to fresh breeze from N. N. W. Moderate sea, smoothing down when under lee of the land. Passing through Van Diemen Straits, land in sight on both hands. At 9th quarter. At 10th changed course to S. E. by E. ½ E., at 11th to S. E. by E., and at 11.18th to S. E. ½ E. P. L. 65.2. By order of Gunner Dendy placed Jos. Kohler, P. M. in double irons for three days for insubordination and A. Birkett, 1. Capt. in confinement on bread and water for one day, for misuse to Quarter Master, while at the wheel. At 12th Iwogasima Peak (emitting smoke) bore (mag) S. by W. 3/4 W. Exchange in steam and sail

N. H. Gearing
Lieut U. S. N.

From Meridian to 4 P. M.

Clear, cool weather. Stiff to fresh breeze from N. by W. and moderate to fresh breeze from N. N. W. At 1.30 called reef top sails and took two reefs, changing course to E. N. E. At 1.44 changed to E. ¼ S. At 3.08 lost sight of Satans Light House bearing W. N. W. ¼ W. At 3.16 changed course to E. N. E. At 3.20 turned reefs out of top sails. At end of watch under steam jib, fore and aft main sail, foresail and top sails on course E. N. E. High land of Japan on port bow, beam and quarter. Island to starboard, bearings at end of watch N. E. point Tanega Island S. ½ W, about nine miles distant.

B. F. Waring
Lieut U. S. N.

From 4 to 6 P. M.

Clear and cold. Moderate to stiff breeze from N. W. by N. At 4th set and at 5.50th took in top gallant sails. At 5.10th exercised at fire quarters and then mustered crew at stations for abandoning ship. Land in sight on port bow. Steering course E. N. E. at 5.10th set main trysail.

A. T. Mahan
Ensign U. S. N.

From 6 to 8 P. M.

Generally clear, bright moonlight. Cirro cumulus clouds. Moderate to fresh breeze in squalls from N. N. W. shifting at 7.15th to N. by E. Moderate sea and swell from N. N. W. At 6.10th shook two reefs in top sails. At 7.35th took in square sail, turned out reefs and began furling. Set spanker. Light bore abeam at 7th. At end of watch, on course E. N. E. under fore and aft sail and steam. Steam 52. Revolutions 49.

A. C. Sorgue Ensign U. S. N.
E. K. Lopez

From 8 P. M. to Midnight

Clear and cold. Very fresh breeze from North. Moderate increasing sea. Bright moonlight. At 10th hauled down and stowed jib. At 8th changed course to N. E. by E. ½ E.

E. K. Galloway
Lieut U. S. N.

Examined and found to be correct.

A. T. Mahan Lieut U. S. Navigator.

LOG of the UNITED STATES Steamer Essex, 30 Rate,

At Sea making passage to Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	Rate of the Sea.
A. M.																	
1	6	0	810	N. E by E.	N by E.	6	4		30.063	64	66			bc	cu-nim	6	M
2	5	8	86.8	"	"	4	4		30.062	64	66			"	"	3	"
3	6	4	93.2	"	"	5	4		30.056	64	66			"	cu-nim	2	"
4	7	9	100.5	"	N by W.	6	4		30.065	64	64			"	"	1	"
5	7	9	8 4	"	"	3-5	5	1/4	30.049	64	63			bcg	cu-nim	3	"
6	8	1	16.5	"	"	3-5	4	1/4	30.044	64	63			"	"	2	"
7	8	6	25.1	"	"	3-5	4		30.044	64	63			"	"	2	"
8	8	8	33.9	"	"	3-5		1/4	30.054	65	66			"	cu-clouds and cu-nim	2	"
9	7	1	41.0	"	N W by N	3-4			30.088	64	66			bc		3	S
10	7	4	48.4	"	"	3-4			30.094	64	66			"	cirrus	2	"
11	9	1	57.5	"	"	3-4			30.074	64	66			"	cu-cum	2	"
Noon.	8	7	66.2	"	"	3-4			30.054	64	62			"	"	2	"

Course and distance made good since preceding noon by observations, E. ½ E. 188 knots. tenths.

Position at Noon:
- Latitude by D. R. — N 32 . 05 "
- Longitude by D. R. — E 133 . 34 "
- Latitude by observations of ⊙ — N 32 . 13 "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 133 . 41 "

Position at 8 a. m.
- Latitude by — N 31 . 58 "
- Longitude by — E 133 . 25 "

Position at 8 P. M.
- Latitude by — N 32 . 39 "
- Longitude by — E 134 . 31 "

Current during the time, knots 5 tenths per hour, setting to the N. E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 20 " N. 64 E. ½ E. 8 W 3 . 34 "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1980 "

Coal consumed during the preceding 24 hours, 16 tons 860 lbs.

Coal remaining on hand at Noon, 103 " 1840 "

P. M.																	
1	7	4	73.6	N. E by E. ½ E.	N. N. W.	3-4			30.060	64	64			bc	cum-x cum-str	2	M
2	6	6	80.4	"	North	3			30.050	64	64	68		"	"	2	"
3	6	2	86.0	"	N by E	3			30.050	68	64	64		"	"	3	"
4	6	2	93.5	"	"	3			29.995	0	64	64		"	"	3	"
5	6	8	100.3	"	North	2-3			29.995	0	64	64		"	cum	2	S
6	7	9	108.2	"	N. W.	2-3			29.995	1	64	63		"	"	4	"
7	7	0	15.2	"	N by E	3	3		29.985	0	64	64		"	cirrus	1	"
8	6	4	21.9	"	"	3-5	3		30.005	0	64	64		bcg	"	1	M
9	5	9	27.8	N. E by E. ½ E.	"	4-6	4	1/4	30.025	0	64	64		"	"	1	"
10	6	4	33.2	"	"	4-6	5	1/4	30.025	0	64	64		"	"	1	"
11	6	4	41.6	"	"	4-6	5	1/4	30.050	64	64			"	"	2	"
Mid.	7	0	48.6	"	"	4-6	5	1/4	30.070	64	65	68		"	"	1	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday February 5th, 188 7.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends at A. M.

Generally fair & cool. Moonlight. Fine moon set at 3h. Fresh to moderate breeze from N. by E. to N. by W. Moderate sea. at 2h. set fore & foresail at 3h. Under steam, fore & aft. staysail, foresail, main trysail & spanker. Course N. E. by E. ½ E.

H. C. Gearing.
Lieut U. S. N.

From 4 to 8 A. M.

Clear, cool weather. Gentle to stiff breeze in squalls from N. by W. At daylight made high land bearing North. At 8: 1st bore N. by W. ¾ W. Under steam, foresail, fore & aft. staysail main trysail & spanker; on course N. E by E. ½ E. Sea moderate. Passed a steamer standing to S. W.

Lieut U. S. N.

From 8 A. M. to Meridian

Cool & cloudy. Gentle to moderate breeze from N. W. by N. At 10h. hauled fires under two boilers. At 10h 40m called all hands & made sail to top gallant sails at 11h. set mizzen top mast staysail.

C. A. F. Dechaux
Ensign U. S. N.

From Meridian to 4 P. M.

Partly clear, bright & cool. Clouds cum & cir-cum. Gentle to moderate breeze from N. N. W. 1st hour, gentle breeze from North 2d hour, shifting at 20m to N. by E. Smooth sea. Moderate swell from N. E. Tide-rips to N. At 12h to took in top gallant sails & at 12h 5m topsails. At 1h 30m sighted high land on port bow bearing about N. by E. ½ E. (pc). At 1h to took in foresail. At 2h to took in and unbent mizzen top mast staysail. At 3h started fires in boilers 2 & 4. At end of watch on course N. E. by E. ½ E, under steam & fore & aft sail. Land in sight forward port beam bearing (pc) about North. Steam to Revolutions 39.5.

Ensign U. S. N.

From 4 to 6 P. M.

Fair, cool & pleasant. Gentle breeze from North & N. W. Smooth sea. Moderate swell from N. E. Many cumulus clouds passing N. by W. At 4h 50m put steam from two more boilers on engine.

Lieut U. S. N.

From 6 to 8 P. M.

Foggy & pleasant. Gentle breeze from N. by E, with occasional stiff puffs last hour. Smooth sea, with moderate sea rising last hour. Moonlight. No change in steam or sail. Course N. E. by E. ½ E.

H. C. Gearing.
Lieut U. S. N.

From 8 P. M. to Midnight

Generally clear, cool weather. Moderate to fresh breeze in squalls from North. Long sea from North. Ship pitching deeply at times. Under steam and fore & aft sail. At 8: 40 changed course to N. E. by E. ¼ E.

B. F. Wadleigh
Lieut U. S. N.

Examined and found to be correct.

A. T. Mahan Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	0	55.6	N. E by E. 1/4 E.	North	4.6			30.00	79	75	165		b. c. g.	cumulus	6	N
2	8	2	63.8	"	"	4.6			29.98	78	75	163		"	"	8	"
3	8	2	72.0	"	"	3.5			29.98	78	74	162		"	"	9	"
4	8	4	80.4	"	"	3.5			29.96	79	74	062		"	"	9	"
5	8	0	88.4	"	"	3.4			30.00	78	74	062		b. c.	cumu	8	"
6	7	6	96.0	"	N. N. E.	3.4			30.00	79	75	062		"	"	7	"
7	7	7	103.7	"	North	3.4			30.02	78	80	960		"	cir cumu.	6	"
8	8	6	12.3	"	"	4.5			30.04	78	77	059		"	"	4	"
9	6	2	18.5	N. E. 3/4 E.	"	4.4			30.06	77	73	059		b. c. g.	"	7	"
10	6	8	25.3		"	4.4			30.06	76	73	059		"	"	8	"
11	5	0	30.3	N. E. 1/2 E.	"	4.4			30.08	75	73	059		"	"	8	"
Noon.	6	7	37.0	"	"	4.4			30.10	74	72	059		"	"	8	"

Course and distance made good since preceding noon by observations, N. E by E 3/4 E. 189 knots. tenths.

Position at Noon: Latitude by D. R.	N 33° 39'	"
Position at Noon: Longitude by D. R.	E 136° 39'	"
Position at Noon: Latitude by observations of ⊙	N 33° 54'	"
Position at Noon: Longitude by chronometer from Forenoon Observations of ⊙	E 134° 12'	"
Pg. 1034 Position at 8 a. m. Latitude by D R	N 33° 18'	"
Position at 8 a. m. Longitude by Chro do do do	E 136° 44'	"
Position at 8 P. M. Latitude by Polaris	N 34° 13'	"
Position at 8 P. M. Longitude by Chro P. M. Obs ⊙	E 138° 06'	"
Current during the time, 1 knots 3 tenths per hour, setting to the E. by S 3/4 S.		
Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head	° '	"
Variation of the Compass by Amplitude ⊙ observed at Sunset, "	° '	"
Variation of the Compass by Azimuth ⊙ observed at "	° '	"
Variation of the Compass by Azimuth ⊙ observed at 8 P.M. "	W 5.26	"
Water expended during the preceding 24 hours,	320 gallons.	
Water _____ during the preceding 24 hours,	"	
Water remaining on hand fit for use at Noon,	1660 "	
Coal consumed during the preceding 24 hours,	16 tons 2180 lbs.	
Coal remaining on hand at Noon,	86 " 1900 "	

P. M.														
1	6	7	43.7	N. E. 1/2 E.	N. N. W.	6-7	5	30.09	53	42	069	b. c.	cumulus	N
2	8	7	52.4	"	N. W. by N.	7	5	30.09	53	40	060	"	"	5 "
3	9	1	61.5	"	"	7	5	30.10	53	44	061	"	cirrus	7 N. P.
4	9	0	69.8	"	N. N. W.	8	5	1/4 30.14	54	44	161	"	"	6 "
5	7	6	77.4	N. E. 1/2 N.	"	7-7		1/4 30.04	61	54	161	"	"	6 "
6	7	9	86.3	"	"	7-6		1/4 30.04	60	54	161	"	"	8 "
7	7	9	96.1	"	N. W.	7-5		1/4 30.03	51	45	161	"	"	8 N.
8	7	8	103.9	"	"	7		1/4 30.02	50	45	162	"	"	8 "
9	6	9	10.8	E. by E. 1/4 E.	North	3-4		30.04	46	45	062	h.	rain	10 "
10	1	0	11.9	"	E. by E.	3-1		30.04	50	45	162	"	"	10 Gale
11	8	2	20.1	"	E. S. E.	1		30.04	53	46	362	h. c.	cumulus	7 "
Mid.	8	2	28.3	"	"	1		30.05	54	46	357	"	"	7 "
	4	5	32.8											
	3	6	36.3	E. 3/4 N.	"	1		30.05	54	46	57	"	"	7 "

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday February 6th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian and Until 4 A. M.

Clear & cool. Bright moonlight. Gentle to stiff breeze from North. Course N. E. by E. 1/4 E. under steam & fore & aft sail.

C. A. F. Jeffers
Ensign U. S. N.

From 4 to 8 A. M.

Partly clear with cumulus & cirro-cumulus clouds. Bright & cool. Gentle to moderate breeze from North. 1st hour N. N. E., 2 hours Latter part gentle to stiff breeze from N. by E. Moderate sea & swell from North. Ship knocking about considerably. At 5m hoisted in fore & aft sail, set it again at 6th. At end of watch on course N. E. by E. 1/4 E. under steam & fore & aft sail. Steam 4s. Revolutions 45. Land in sight all along N. during watch.

C. A. F. Jeffers
Ensign U. S. N.

From 8 A. M. to Meridian

Fair, cool & pleasant. Stiff to fresh breeze from North. At 9m inspected sick quarters. At 9h called all hands to muster & Cond'g Officer conferred the Department's bronze medal on Wm Morgan, C. B. & N. Sailor, Sea, the former of five good conduct discharges, the latter on me. At 9h changed course to N. E. 3/4 E, at 10m to N. E. 1/2 E. Sea moderate with swell from N. E. High land in sight on port beam and quarter. At 10h hauled down & stowed jib. At end of watch under steam (six boilers), staysail, fore & aft sail.

Lt. H. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Clear & cool. Very fresh breeze from N. W. by N. & N. W. increasing last hour to moderate gale. Moderate sea, roughening last part. At 12h set foresail. At 3m changed course to N. E. P. L. 64.8. Sent down topgallant yards. At 4m appearance of a high mountain (Fuji-yama) bearing N. by E. 3/4 E. Under steam, fore & aft sail, foresail, staysail & spanker.

A. B. Geoms
Lieut U. S. N.

From 4 to 6 P. M.

Clear & pleasant. Moderate to fresh breezes from N. N. W. At 5h sighted Fuji Yama bearing N. E. by N. Rough broken sea. Ship rolling easily but deeply.

B. H. Wadleigh
Lieut U. S. N.

From 6 to 8 P. M.

Clear & cold. Bright moonlight. Moderate to fresh breeze from N. W. Under steam & fore & aft sail. Ship pitching & rolling easily.

C. A. F. Jeffers
Ensign U. S. N.

From 8 P. M. to Midnight

Generally clear, bright moonlight. Cold. Light cirro-cumulus clouds latter part. Smooth sea with moderate swell from N. W. Passed ship's heavy kedge at 10m. Gentle to moderate breeze from North 1st hour, shifting to E. N. E. 2d hour & falling to light airs. Light airs to breezes from E. & E. S. E. latter part. At 8m sighted Omai Saki Light bearing N. N. E. At 8h changed course to E. N. E. 1/4 E, P. L. 10.8. At 10m Omai Saki Lt. bore N. N. W. 1/4 W, distant 11.3 miles. At 11m sighted Oro-no-Saki Lt. bearing E. N. E. high land on port bow. At 11h changed course to E. 3/4 N, P. L. 32.8. At 11h sighted Rock & Lt bearing (&c) E. by N. & lost sight of Omai Saki Lt. bearing W. N. W. At 12h changed course to E. 1/4 N P. L. 36.3 Under steam alone, having taken in sail at 10h Oro-no-saki Lt. bore N. E. by E. 1/2 E. Steam 4s. Revolutions 45.

H. Towne Lowe
Ensign U. S. N.

Examined and found to be correct.

S. V. Wadham. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	9	44.2	E. 1/4. N.	E by N	3			30.05	50	44	45	59	b.c.	cir. cum. cum str	6	S.
2	4	5	51.7	"	N. E by E	4			30.06	49	46	45	60	"	"	3	"
3	0	5	56.2	N. E.	N. E by N.	3-4			30.06	49	46	47	60	"	"	1	"
4	4	3	66.2	"	"	3-4			30.03	48	45	41	60	"	"	4	"
5	4	3	73.5	"	N. N. E.	2	0		30.06	46	45	41	60	"	"	4	"
6	4	3	80.8	"	"	3	0		30.08	46	44	40	60	"	"	8	"
7	1	5	88.5	N. E. 1/4. E.	N. E by N	3	0		30.10	45	42	39	60	"	"	6	"
8	6	6	95.8	N. E. 1/4. E.	N. E.	3	0		30.08	44	41	39	60	"	Cum cumb	5	"
9	6	8	102.6	Standing up	N. E by N	3			30.09	48	40	34	59	"	"	5	"
10	4	4	10.0	Just off	North	3			30.1	58	39	36	59	"	cir cum	6	"
11	4	4	14.4	Yoko	"	3			30.12	54	39	36	59	"	"	4	"
Noon.					"	3			30.10	59	39	35		"	"	4	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 A M.
- Latitude by the following bearings Symonoseki Saki Lt. N.E. 1/4. E. 13 3/4 miles ° ' "
- Longitude by Nagasaki Lt. N.W. 1/2 W. 19 miles ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 920 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 13440 "

Coal consumed during the preceding 24 hours, 15 tons 2110 lbs.

Coal remaining on hand at Noon, 70 " 2030 "

P. M.													
1	Fine	Ship's head E. by N.	N. E.	1		30.05	62	40	34	b.c.	cir cum	6	S.
2	"	S.W.	E. by N.	0		30.03	64	41	34	"	"	5	"
3	"	E. by N.	N. E.	0-1		30.03	64	43	39	"	"	5	"
4	"	E. N. E.	"	0-1		30.03	66	43	40	"	"	5	"
5	"	N. E. by E.		0-1		30.01	69	43	40	"	"	5	"
6	"	N. E.	N. N. E.	1		30.01	69	42	40	b.cum	str	4	"
7	"	N. N. E.	"	1		29.99	70	42	40	cum	cu. cum	0	"
8	"	"	"	1		30.00	64	42	39	"	"	0	"
Tsuruga Bay	"	"	N. E. by N.	1		29.99	65	42	39	"	"	0	"
10	"	"	N. N. E.	1		29.96	52	42	39	"	"	0	"
11	"	"	N. E.	1		29.95	53	42	39	"	"	0	"
Mid.	"	"	"	1		29.94	54	42	40	"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,
Monday February 1st, 1858.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Commences, and Until 4 A. M.

Fair, cool and pleasant. Little breeze from S. E. first half hour then, little to stiff breeze from N. E. at 2h. Rock Island Light bearing North. Changed course to N. E. by E. Sea smooth. Bright moonlight. Circumstances passing over from S. during entire watch. Under steam, alone, at end of watch. At 3h. Lighted Vieques Island bearing E. by N. 4 p.c. At 4h. Rock Island bore 4 p.c. S. W. 4/8 W.

From 4 to 8 A. M. Lieut. Galloway U. S. N.

Fair and cool. Little breeze from N. N. E. to N. E. Smooth sea. Passed Vieques Island on starboard hand at 6h., distant 5 miles. At 8h. Yarahuca Light bore N. 3/4 E. Sunrise Saki Light N. E. At 6h. changed course to N. E. 1/4 E. P. L. 8 1/2 W. at 10h. changed course to N. E. 3/4 E. P. L. 95. 2. Steam, alone. At 8h. a steamer in sight astern overhauling the ship.

From 8 A. M. to Meridian. Lieut. Gearing U. S. N.

Pleasant clear, delightful weather. Little breeze from N. E. by N. & N. Standing up Gulf of Yedo under charge of Commanding Officer under steam. Steam alone. Made preparations for port. At end of watch rounding Kanonkoo Light Ship. Draft forward 13. 2, aft 14. 4, after 6.

From Meridian to 4 P. M. Lieut. U. S. N.

Weather pleasant, partially cloudy. Calm and light variable airs. At 1h. got underway and shifted berth. Moored Ship in 15 1/4 fms water with 45 fms on each chain, putting on mooring swivel. Bearings of anchorage, Light ship E. S. E. Light on end of English Battoba W. S. W. At 1h. made signal to Flagship, preparatory 2 2 9. Flagship answered 90. Commanding Officer made a visit to Rear Admiral Chandler. Relieved J. Kohler, P. M. his time having expired. Hauled fires under 4 boilers. Came to anchor at 12h.

From 4 to 8 P. M. Ensign U. S. N.

Cloudy and cool weather. Light airs from N. E. and N. N. E. and Calms. Misty over the land.

From 8 P. M. to Midnight. Lieut U. S. N.

Generally cloudy and cool. Light variable airs. Ebb tide.

Ensign U. S. N.

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Log.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.																	
1	Ebb			N. N. E.	N. N. W.	1			29.905	44	52	40		D.C.	cirri	0	S
2	"			"	"	1			29.885	44	52	40		"	"	0	"
3	"			N. E. by N.	"	1			29.865	44	52	40		"	"	0	"
4	"			N. N. E.	"	1-2			29.835	44	52	40		"	"	0	"
5	"			N. by E.	"	2			29.814	48	41	38		"	"	0	"
6	"			"	"	1			29.794	49	40	38		"	"	0	"
7	"			"	"	1			29.764	49	40	34		"	"	0	"
8	"			"	North	1-2			29.764	49	39	34		"	"	0	"
9	"			"	N. N. E.	1-2			29.744	49	41	34		"	"	0	"
10	"			"	"	1			29.786	49	42	39		D.C.	"	4	"
11	"			"	"	1			29.785	49	46	43		"	cirri	4	"
Noon.	"			"	"	1			29.785	49	46	43		"	cirro str	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1020 "

Coal consumed during the preceding 24 hours, 1 tons 910 lbs.

Coal remaining on hand at Noon, 69 " 1120 "

P. M.												
1	Flood	E. N. E.	E. N. E.	1-2	29.759	43	D.C.	cir cum.	1	S.
2	"	E. by N.	E. by N.	1-2	29.761	42	"	"	1	"
3	"	N. E. by E.	"	1-2	29.761	42	"	"	1	"
4	Slowing to Ebb	N. E.	N. E. by E.	1-2	29.761	43	"	"	1	"
5	Ebb	N. N. E.	North	1-2	29.806	42	"	"	1	"
6	"	"	"	1	29.836	40	"	"	5	"
7	"	N. by E.	"	2	29.856	39	"	"	2	"
8	"	"	"	3	29.895	38	"	"	3	"
9	"	"	"	3-4	29.895	38	"	"	3	"
10	"	"	N. N. E.	3-4	29.905	34	"	"	2	"
11	"	"	"	4	29.913	34	D.C.	cum nimb	2	"
Mid.	"	"	"	1	29.925	36	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday February 8th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and Unfits A. M.

Overcast, cool & wet. Squalls & rain. Light airs to breeze from N. to W. Riding to sbt. Two steamers came in.

H. L. Townsend
Ensign U. S. N.

From 4 to 8 A. M.

Overcast, cool weather. Light airs to breeze from N. N. W.

P. Murphy
Asst Surg. U. S. N.

From 8 A. M. to Meridian

Partly cloudy. Clearing towards end of watch. At 9.20 A.M. inspected at quarters. No Patient. 1 Sick absent without leave. Drilled 1st Div. School of the Soldier 2d Infantry. 3d Single Sticks. Navigation. Single Sticks. Received an official visit from Capt's Officer of "Omaha". Began distilling at 10.20 A.M.

C. A. T. Degraw
Ensign U. S. N.

From Meridian to 4 P. M.

Partly clear with cirro cumulus clouds. Light airs to breeze from E by N. to N. E by E. Riding to fleet tide 8.20 P.M. when steaming to sbt. Furnished J. Phillips Sea. App. 2. C. with a copy of specification of offence preferred against him by Summ'g Officer. Scrubbing & Painting Mainmast & Yard & Starring, down. Painted hammock clothes. Distilling.

H. L. Townsend
Ensign U. S. N.

From 4 to 8 P. M.

Clear, at first, cloudy towards end of watch. Light airs from North. Ebb tide.

C. A. T. Degraw
Ensign U. S. N.

From 8 P. M. to Midnight

Cloudy & cool. Overcast latter part. Clouds cirro cumulus & nimbus. Moon shining occasionally. Little to moderate breeze from North to N. N. E. Riding to sbt. Distilling.

H. L. Townsend
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.															cumu		
1	Ebb			N. E by N.	N. N. E.	1			29.895	40	36			o. cum.	cumu nimb.	0	S.
2	"					2			29.885	40	36			"	"	0	"
3	"			N. N. E.	N. by E.	2			29.895	39	36			"	"	0	"
4	"			N. by E.	"	4-5			29.89	38	39	35		"	cumu	0	"
5	"				"	4-5			29.91	38	34			b. c. g.	cumu str.	2	"
6	"			N. N. E.	"	4-5			29.92	38	34			"	"	2	"
7	"			"	"	4			29.94	35	33			b. c.	"	3	"
8	"			"	"	4			29.94	35	33			"	"	3	"
9	"			"	N. N. E.	4			30.01	43	33			o. c.	cumu nimb.	0	"
10	"			"	"	4			30.06	43	33			"	"	0	"
11	"			"	N. E by N.	4			30.08	60	33			"	"	0	"
Noon.	Slack			N. E.	"	4			30.06	61	33			"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water Distilled during the preceding 24 hours, 1200 "

Water remaining on hand fit for use at Noon, 2400 "

Coal consumed during the preceding 24 hours, 2 tons 210 lbs.

Coal remaining on hand at Noon, 67 " 910 "

P. M.										
1	Flood	N. E by E.	N. E.	2	30.03	63	34	o. c.	cumu nimb.	0	S.
2	"	"	"	2	30.05	65	38	o. c.	"	0	"
Hoisting the Ebb		"	"	2	30.04	65	38	"	"	0	"
4	Ebb	N. E.	"	1-2	30.04	66	39	o. c.	"	0	"
5	"	N. E by N.	"	1-2	30.04	66	39	"	"	0	"
6	"	N. N. E.	N. N. E.	1-2	30.05	66	39	"	"	0	"
7	"	"	"	1-2	30.05	66	39	"	"	0	"
8	"	N. by E.	"	1-2	30.05	64	39	"	"	0	"
9	Flood	North	North	1-2	30.05	58	38	o. c.	"	0	"
10	"	"	"	1-2	30.05	63	36	o. c.	"	0	"
11	"	"	"	1-2	30.02	63	36	o. c.	"	0	"
Mid.	"	N. by E.	"	1-2	30.00	62	36	o. c.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday February 9th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Gutes 4 A.M.
Overcast & cold. Gentle to stiff breze from North. Tide ebb. Moonlight. Distilling.
E.D. Galloway
Lieut U. S.N.

From 4 to 8 A.M.
Cold & cloudy. Moderate to stiff breze from N. by E. Peace J. Williams, Quarter Master, under sentrys charge, he being drunk.
A.F. Jewett
Ensign U.S.N.

From 8 A.M. to Meridian
Overcast & cloudy. Cold. Sounded cum-mins. Moderate breze from N.N.E. & N.E. by N. Riding to ebb. Slack last hour. Went to quarters for inspection at 9.30 after which drilled 1st & 3d Divisions at small arms, 2d Div. at single sticks, Marines, Bayonet Exercise, Pivot drill at stations. At 10 a.m. U.S. Steamer Journal to Japan, came on board. At 10 a.m. Summary Court Martial as yet for trial of J. Schippers, Sea App 2 c. Overhauled drig J. C. Primers & found them right. Fitted new starboard forward torpedo boom guy from launch mooring line. Summary Court adjourned at 11 a.m. to await decision of Judge Officer. Getting ready to paint ship's side outside & hatch coamings. Distilling. By order of Judge Officer placed Alex Campbell, Barber, under sentrys charge, drunk on duty. H. Tokich, Stg Cook, absent without leave.
A.F. Jewett
Ensign U.S.N.

From Meridian to 4 P.M.
Overcast & cold. Light spits of snow. Gentle breze from N.E. Engaged painting ship outside. Distilling. Shipped for cruise as Lab Team Serg.
E.D. Galloway
Lieut U.S.N.

From 4 to 8 P.M.
Overcast, cloudy & cold. Sounded cum-mins. Light airs to breze from N.E. & N.N.E. Riding to ebb. Finished painting ship outside. Distilling.
A.F. Jewett
Ensign U.S.N.

From 8 P.M. to Midnight
Overcast & cold with light snow. Gentle breze from North. Tide flood. Distilling.
E.D. Galloway
Lieut U.S.N.

Examined and found to be correct.

S.V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES "Tuscarora", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cum		S
1	Ebb			N. by E.	North	1-2			30.005	64	64	35		0.C.	cum-nimb	0	
2	"			N. E. by N.	"	2			30.005	63	63	34		"	"	0	"
3	"			"	"	2			29.995	63	63	33		"	"	0	"
4	"			N. E.	"	2			29.995	63	63	33		"	"	0	"
5	"			"	N. E.	2			29.995	63	63	33		"	"	0	"
6	"			N. E. by N.	"	2			29.996	49	63	33		b.c.	cir-cum	1	"
7	"			N. N. E.	"	2			29.998	48	63	33		"	"	1	"
8	"			N. by E.	"	2			29.998	48	63	33		"	"	8	"
9	"			"	"	2			29.994	83	63	34		b.cu.	"	8	"
10	Flood			N. N. E.	"	1			30.025	13	63	36		"	"	8	"
11		"		"	"	1			30.025	0	64	38		"	"	8	"
Noon.		"		E. by N.	East	1			30.025	6	64	38		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 380 gallons.

Water Destilled during the preceding 24 hours, 480 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 1 tons 1680 lbs.

Coal remaining on hand at Noon, 65 " 1470 "

P. M.												
1	Not to be	East	E. by E.	2	29.945	40	64	b.c.	cir-cum	9	S
2	apparent	N. by E.	N. by W.	2	29.951	43	39	"	"	8	"
3		North	"	3	29.954	43	39	"	"	8	"
4		"	"	4	29.944	43	38	"	"	2	"
5		N. by E.	North	4	30.006	43	34	"	cir-cum	9	"
6		N. N. E.	N. by E.	2	30.034	84	34	"	"	8	"
7		"	"	2	30.038	40	36	"	"	8	"
8		"	"	2	30.068	40	36	"	cum	2	"
9	Riding	North	"	2	30.096	34	34	"	cir-cum	8	"
10	to	"	"	2	30.096	34	34	"	"	8	"
11	Wire	"	N. W. by W.	2	30.104	36	32	"	"	8	"
Mid.		"	"	1	30.114	36	32	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday February 10th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends at 4 A.M.

Cloudy, cool. Spits of snow first two hours. Light breze from North. Obscured moonlight. Riding to ebb tide.

H. McGearing
Lieut U. S. N.

From 4 to 8 A.M.

Overcast first hour. Clearing afterwards. Winds cum-winds cir-cum. Light breze from N.E. Riding to ebb. Preparing to paint ship inside.

Thos Longstaff
Ensign U. S. N.

From 8 to Meridian

Clear cool, hazy & pleasant. Gentle breze from N.E. Engaged painting ship inside. J. Tolrich, Stg Cook returned on board 4 hours overtime under the influence of liquor. discharged by reason of own request. Engineer Cabin Cook by direction of Commdg Officer. At 10 A.M. a board of Survey, Lieut J.C. Hoover, Senior Member, came on board to survey articles in Navigation Dept. during forenoon U.S.S. Ships "Omaha" & "Adams" exercised Sails.

C. G. Galloway
Lieut U. S. N

From Meridian to 4 P.M.

Clear cool & pleasant. Light to gentle breze from N. by W. Painting ship inside. By order of Commdg Officer John Williams, 2d Class and Alex Campbell, Barber, were released from confinement, & from this date detached for drunkenness on duty.

H. McGearing
Lieut U. S. N.

From 4 to 8 P.M.

Clear & cool. Moderate to gentle breze from North. Engaged painting ship inside.

C. G. Galloway
Lieut U. S. N.

From 8 to Midnight

Clear cool. Light breze from N. by E. to N. N. W. Riding to wind. Bright moonlight.

H. McGearing.
Lieut U. S. N

Examined and found to be correct.

A. T. Williams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N by W.	North	3			30.12	42	36	32		b.c.	cir-cum	9	S
2				N. W. by N.	"	3			30.12	42	35	31		"	"	8	"
3				North	"	2-3			30.14	42	36	31		"	"	8	"
4				N. W by N.	"	2-3			30.12	45	36	32		"	"	8	"
5				"	"	4			30.12	49	36	32		"	"	8	"
6				North	"	4			30.13	43	36	32		"	"	9	"
7				"	"	4			30.15	49	36	32		"	"	9	"
8				N. N. E.	"	4			30.18	49	35	32		"	"	9	"
9	Ebb tide.			N. E by N.	N. N. E.	4			30.20	41	34	33		"	"	9	"
10				N by E.	"	3			30.29	56	39	34		"	"	9	"
11				N. E by E.	N. E by E.	2			30.25	56	39	36		"	"	9	"
Noon.				N. E.	"	2			30.25	64	40	36		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 380 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 24/20 "

Coal consumed during the preceding 24 hours, 1 tons 1130 lbs.

Coal remaining on hand at Noon, 64 " 3/40 "

P. M.										
1		N. E.	N. E.	1	30.24	64	34	b.c.	cir-cum	9	S.
2		E. N. E.		1	30.24	60	38	"	"	9	"
3		"	N. E by E.	1	30.24	60	36	"	"	9	"
4		"	"	1	30.21	60	36	"	"	6	"
5	Ebb tide	E by N.	Calm	0	30.21	61	40	"	"	4	"
6		N. E by E.	"	0	30.21	61	42	"	"	4	"
7		N. N. W.	N. W.	1	30.23	60	42	"	"	3	"
8		N by W. W.	"	1	30.23	59	42	"	"	5	"
9		W by S.	West	1	30.23	59	43	"	"	4/6	"
10		N. W by W.	"	1	30.23	55	40	"	"	6	"
11		N. W.	"	1	30.23	54	38	"	"	8	"
Mid.		"	N. W.	1	30.23	52	36	"	"	8	"

under the command of Commander T. T. Jewett, U. S. Navy,

Friday February 17th, 1865.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A. M.
Clear and cool. Light breeze & gentle breeze from South.

Lieut U. S. N.

From 4 to 8 A. M.
Clear and cool. Gentle to moderate breeze from North.
Engaged painting ship inside. At 7 30 Flagship made, dress and time signal 3, ans 3. repeated. (Dress, all blue). At 7 50 Flagship made signal 5 to 5. Answered. Made signal Int 4 to 3 to Flagship. Answered 9 of.

Lieut U. S. N.

From 8 A. M. to Meridian.
Fine, clear weather. Gentle to light breeze from E to E and N. E. & E. Engaged in painting ship. At 9 30, called all hands to muster. Reads order promoting apprentices & the approved sentence by Summary Court in the case of Frisk Schipperus Sea app 2 6, in accordance with sentence of the court placed J. Schipperus Sea app 2 6, in solitary confinement on bread & water for fifteen days with full ration every fifth day. By order of Cmd'r Cmd'g placed L. J. Dunn, Blacksmith, in confinement in double irons for ten (10) days for disobedience of orders. A Board of Survey on a clutch coupling in the shaft of this vessel, ordered by the Commander in Chief met on board.

Lieut U. S. N.

From Meridian to 4 P. M.
Clear and cool. Light airs from N. & N. E & E. Transferred J. A. Bils S. A. &c, with hammock & effects to U. S. Naval Hospital Yokohama Japan for treatment. Discharged at his own request J. Y. See, Stg Stf, he waiving all claims for transportation to the United States. Japanese Minister visited the ship & was received with usual honors. P. M. S. S. City of Peking came in & anchored.

Lieut U. S. N.

From 4 to 8 P. M.
Calm first part light airs from N. W. second part of watch. At 5 30 inspected at quarters. By order of Cmd'g Officer placed T. J. Clifford Sea app &c, drunk & noisy in double irons to get sober. Received and issued 4 lbs each of fresh beef & vegetables.

Lieut U. S. N.

From 8 P. M. to Midnight
Clear & cool. Light airs from west & N. W. Riding to the wind.

Lieut U. S. N.

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Log Apparent			N. W.	N. W.	1			30.22	50	36	34		h.	cum	9	S.
2	Side			N. N. W.	"	1			30.22	50	36	34		"	"	9	"
3				"		1			30.22	49	38	33		h. c.	cir cum	9	"
4				North	N. N. W.	1			30.22	50	36	33		"	"	9	"
5				"	North	1			30.19	47	42	32		"	str	8	"
6				N. by E.	"	1			30.21	47	39	32		"	"	8	"
7				North	"	1			30.20	48	33	31		"	"	8	"
8				"	N. N. W.	1			30.20	47	33	31		"	cir	9	"
9				"	North	2			30.29	56	30	33		"	cum	8	"
10				"	"	1			30.24	52	36	33		"	"	9	"
11				N. by E.	"	1			30.26	49	40	49		"	"	9	"
Noon.				"	N. E.	1			30.26	45	42	40		"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 380 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2040 "

Coal consumed during the preceding 24 hours, 1 tons 580 lbs.

Coal remaining on hand at Noon, 62 " 2000 "

P. M.												
1	Log Apparent	E. N. E.	N. E.	1	30.16	65	44	42	h. c. cirst	9	S.
2	Side	East	E. by E.	1	30.26	24	41	41	"	"	7	"
3		E. by S.		1	30.10	60	45	43	"	"	4	"
4		"	S. E.	1	30.08	52	46	44	"	"	4	"
5		"		0-1	30.06	56	46	46	"	"	4	"
6		East	E. by S.	0-1	30.04	56	47	45	"	"	7	"
7		E. N. E.	"	0-1	30.05	56	47	46	"	"	9	"
8		N. N. E.		1	30.01	56	47	46	h. c. d.	"	9	"
9		N. W. by N.	N. W.	1-2	30.00	55	46	45	h. c.	"	8	"
10		"	"	1	29.99	54	43	42	"	"	8	"
11		N. W.	"	1	29.98	55	43	41	"	"	8	"
Mid.		N. W. by N.	"	1	29.96	54	43	41	"	"	7	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday February 12th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.
Cool with light breeze from N. W. & N. N. W. First part of watch, cloudy, record part clear.
A. F. Leighton
Ensign U. S. N.

From 4 to 8 A. M.
Clear and cold. Light airs from South. Received & issued 112 lbs fresh bread.
N. McGraving
Lieut U. S. N.

From 8 A. M. to Meridian
Clear & pleasant weather. Cold. Light airs & breezes from South. Light airs from N. E. Engaged cleaning Ship. At 9:20 Flagship made Signal Signal 3318. Answered.
L. B. Wagga
Lieut U. S. N.

From 8 A. M. to Meridian
Partially cloudy. Light & variable airs. By direction of the Fleet Surgeon F. J. Gaynor, Seaman 2 c, under sentence of Court Martial, was placed in charge of the Master at Arms to await further action.
A. F. Leighton
Ensign U. S. N.

From 4 to 8 P. M.
Clear, cool weather. Light airs from E. & E. by S. with calms. At 5:30 mustered at quarters. M. J. O'Brien, Ord. Sea. absent without leave. F. Zimmerman, Seaman 2 c & F. J. Linn, Seaman 2 c, left the gig while at watering ashore and could not be found. Both returned on board at 7:30.
L. B. Wagga
Lieut U. S. N.

From 8 P. M. to Midnight
Clear & cool. Light airs from N. W.
A. F. Leighton
Ensign U. S. N.

Examined and found to be correct.

L. McNamee
Navigator.

LOG of the UNITED STATES Steamer "Esui", 3d Rate,

Moored in the Harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Steaming			W. by N.	West	1			29.94	55	54	40		b.c.	cir. cum.	6	S.
2	Tide			N.W.	"	1			29.93	55	54	39		"	"	5	"
3				"	N.W.	1			29.91	55	54	39		"	"	5	"
4				N. by W.	"	1			29.91	55	54	38		"	"	4	"
5				N. by E.	"	1			29.89	55	54	39		"	"	4	"
6				North	"	1			29.89	55	54	39		"	"	6	"
7				N. by W.	N.W. by N.	1			29.89	60	58	32		b.cum.	"	7	"
8				"	"	1			29.89	60	58	32		"	"	7	"
9				N. by W.	North	1			29.90	60	59	32		b.	cum.	10	"
10				N.W. by W.	N. by W.	1			29.91	60	58	40		"	"	10	"
11				N. by W.	Calm	0			29.91	64	60	43		"	"	10	"
Noon.				S.W.	S.E.	1			29.93	62	58	45		"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 380 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1660 "

Coal consumed during the preceding 24 hours, 1 tons 15/0 lbs.

Coal remaining on hand at Noon, 61 " 430 "

P. M.											
1	Steaming	South	S.E.	2	29.91	63	51	49	b.	cum.	10 S.
2	tide	"	"	2	29.91	61	51	49	"	"	10 "
3	"	"	"	2	29.90	61	51	49	"	"	10 "
4		S.E. by S.	S.E. by S.	2	29.90	60	51	49	"	"	10 "
5		S.E.	S. by W.	1	29.95	59	51	49	"	"	10 "
6		South	W. by W.	1	29.96	59	51	49	"	"	10 "
7		W. by N.	"	1	29.99	59	50	49	"	"	10 "
8		W. by W.	Calm	0	30.01	59	49	46	"	"	10 "
9		W. by N.	W. by W.	1	30.04	56	49	45	"	"	10 "
10		"	"	1	30.04	56	49	45	"	cir. cir. cum.	8 "
11		"	N.W.	1	30.04	55	49	43	b.c.	"	8 "
Mid.		"	"	1	30.03	55	49	43	"	"	8 "

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday February 13th, 1859.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Entire 4 A M

Partly clear with cir. cumm clouds. Bright moonlight. Light airs from West to N. W.

A. Townsend
Ensign U. S. N.

From 4 to 8 A M

Clear & Cool. Light airs from W. to N. W. by N.

A. P. Wessells
Asst Surg U. S. N.

From 8 A M to Meridian

Clear and pleasant. Calms and light variable airs. At 9 oc the Commander inspected ship's crew at quarters, then, called all hands to muster, and read a letter written by the American Consul General at Yokohama in reference to the arrest of two apprentices of the "Omaha". Placed T. J. Gaynor 1 C. app. in double irons for ten (10) days for insolence to Asst Paymaster's Steward. H. J. O'Brien 1st C. absent without leave.

C. F. Downton
Ensign U. S. N.

From Meridian to 4 P. M.

Clear bright & pleasant. Light breeze from S. E. & S. E. by S. Pickling to Flood. Received in Pay Dept for issue to crew 1 to the each of fresh beef, vegetables & 1/2 lbs bread.

H. C. Townsend
Ensign U. S. N.

From 4 to 8 P. M.

Clear & pleasant. Light variable airs and calms.

C. F. Downton
Ensign U. S. N.

From 8 P. M to Midnight

Clear bright & cool. Light cir str & cumm clouds latter part. Hove to at 11 o'clock. Light airs from W. N. W. to N. W.

H. C. Townsend
Ensign U. S. N.

Examined and found to be correct.

L. V. Mackenzie Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	No apparent			West	W. by S.	2			30.04	55	54	52		b. o.	cumu cirr	7	S.
2	Tide			"	"	2			30.02	55	54	52		"	"	2	"
3				N.W.	W. by N.	2			30.01	55	54	53	52	"	"	6	"
4				N. by W.	"	2			30.01	55	54	53	52	"	"	8	"
5				North	North	1			30.01	55	53	52	52	"	"	6	"
6				N.E. by E.	"	1			30.01	52	52	51		"	"	3	"
7				N.E.	"	1			29.99	53	52	51		"	"	5	"
8				N. by E.	"	1			29.99	53	52	51		"	"	6	"
9				N.W.	Calm	0			30.03	68	52	51		b.cu.	cumu	3	"
10				N.W. by N.	N. by W.	0-1			30.03	65	53	53		"	"	4	"
11				N.W.	N.E.	0-1			30.01	61	56	54		"	"	3	"
Noon.				N.E.	S.E. by S.	1			29.99	61	58	56		"	"	2	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 380 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1660 "

Coal consumed during the preceding 24 hours, 1 tons 15 1/2 lbs.

Coal remaining on hand at Noon, 59 " 1100 "

P. M.										
1	No apparent	S. by E.	South	1	29.86	82	78	b.cu.	cir cumu str	3	S.
2	Tide	S.W.	S.W.	4	29.86	65	64	"	"	1	"
3		S.W. by W.	"	5	29.85	63	61	b.c.	"	0	"
4		S.W.	"	5	29.85	62	61	"	cumu nimb	0	"
5		S.W. by W.	"	4	29.86	61	59	"	cumu	0	"
6		"	"	2	29.86	61	58	"	"	0	"
7		S. by E.	"	2	29.86	62	59	"	"	0	"
8		"	"	2	29.82	61	58	"	"	0	"
9		N. by E.	North	1	29.83	61	56	"	cumu nimb	0	"
10		North	"	3	29.83	64	63	b.c.	"	2	"
11		N.N.W.	"	3	29.82	65	62	"	cumu	7	"
Mid.		"	"	3	29.82	66	61	"	"	7	"

under the command of Commander T. T. Jewell, U. S. Navy,

Monday February 14th, 188 7.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A.M.
Clear and cold. Light breeze from West. Ship riding to the comb.
Moonlight.

Lieut. G. Galloway U.S.N.

From 4 to 8 A.M.
Clear and pleasant. Light airs from North.

Asst. Surgn U.S.N.

From 8 A.M. to Meridian
Partly clear, hazy & cumn clouds. Airs variable, airs. Cleared ship for action at 9h 30m. All ready in 2 4m 30s. Secured in 16m. Went to general quarters at 9h 45m. All ready in 4m 30s. Secured in 7m 30s. A Board of Inquiry of which Commander H. Hiller was President met at 10h 30m. Adjourned at 11h 30m to meet at 1 o'ck P.M. At 9h 30m U.S.F.S. "Marion" cleared ship for action.

Surgn U.S.N.

From Meridian to 4 P.M.
Cloudy first part with, gusty breeze from South, overcast latter part with moderate to stiff breeze from S.W. Barometer falling. At 10m Court of Inquiry resumed its sitting. At 1h 10m Secd Division exercised great guns. At 3h 45m Court of Inquiry adjourned until 10 A.M. 15 inst.

Lieut U.S.N.

From 4 to 8 P.M.
Overcast and cloudy: clouds cumn. Mod. Moderate to light breeze from S.W. By order of Commdg Officer put M. O'Brien Sea. under sentry charge, having been absent from the ship five days & returning drunk. Noticed current.

Surgn U.S.N.

From 8 P.M. to Midnight
Overcast with light airs from South first hour. Clearing with light to gentle breezes from North and N.N.W. remainder of watch.

Lieut U.S.N.

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Apparent tide			N. by W.	N. N. W.	3			29.815	45	40			b. c.	cir cumu	9	S.
2				N. N. W.	"	3			29.825	44	39			b.	nme	10	"
3				"	"	3			29.855	42	39			"	"	10	"
4				North	"	1			29.849	44	41			"	"	10	"
5				N. by W.	North	2			29.870	43	39			b. c.	cir cumu	8	"
6					"	2			29.885	43	39			"	"	8	"
7				N. E. by E.	"	0-1			29.915	43	40			"	"	9	"
8				"	"	0-1			29.945	42	39			"	"	9	"
9				N. N. E.	"	1			29.963	44	40			"	"	8	"
10				North	"	1			29.983	42	42			"	"	8	"
11					"	1			30.006	35	43			"	"	9	"
Noon.				N. by E.	"	1			30.016	35	43			"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 380 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 900 "

Coal consumed during the preceding 24 hours, 1 tons 690 lbs.

Coal remaining on hand at Noon, 58 " 410 "

P. M.									
1	Apparent tide	East	E. by E.	1	29.996	36	45	b. c.	cir cumu 8 S.
2		N. by E.	"	1	29.986	36	44	"	" 8 "
3		N. by E.	North	4	30.026	40	42	b. c. s.	" 6 "
4		North	"	5	30.036	41	39	"	" 5 "
5		"	"	5	30.046	41	34	"	str 8 "
6		"	"	6	30.058	43	36	"	" 8 "
7		"	"	6	30.065	40	34	"	" 9 "
8		"	"	5	30.056	39	34	h.	nme 10 "
9		N. by W.	"	5	30.206	39	34	"	" 10 "
10		"	"	5	30.209	39	33	"	" 10 "
11		"	"	5	30.216	38	33	"	" 10 "
Mid.		North	"	5	30.256	38	32	"	" 10 "

under the command of Commander T. T. Jewett, U. S. Navy,

Tuesday February 15th, 1859.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A.M.
Clear and pleasant. Gentle to light breze from N.N.W.

H. C. Gearing.
Lieut U. S. N.

From 4 to 8 A.M.
Generally clear, bright, and cool. Cir. cumulous. Light airs to breze from North.

A. Toombs
Asign U. S. N.

From 8 A.M. to Meridian
Clear cool and pleasant. Gentle breze from North. At 9.30 quarters & divisions drill. Navigators 2nd 1st Div, rifles 2d & 3d Div, Single Stick, Boarders Div. Stations. At 10 Court of Inquiry resumed its sittings. At 10.1/2 called away all boats armed & equipted for pleasant service. At 10.2/3 Grand Officer left ship to pay official visits. At 11.50 Court adjourned until 1 P.M. At 12 Grand Officer returned to the ship.

T. D. Galloway
Lieut U. S. N.

From Meridian to 4 P.M.
Cool and pleasant weather. Light airs from E.S.E. till 2 P.M. when wind changed suddenly to North increasing to a stiff breze by end of watch and carrying a heavy cloud of dust. At 10 Court of Inquiry convened on board, adjourning at 3 P.M. to meet again to-morrow at 10 A.M. At 1 P.M. had funeral of Dill. Received and issued to crew 140 lbs each fresh bread & vegetables & 112 lbs meat.

H. C. Gearing.
Lieut U. S. N.

From 4 to 8 P.M.
Cloudy first part with stiff to fresh breze from North bringing off clouds of dust. Clear latter part with stiff to fresh squalls from North. At 4.30 sent sheet chain & got anchor ready for letting go. At sunset mustered at quarters. At 5.20 sent steam launch in shore to shoot for the night.

T. D. Galloway
Lieut U. S. N.

From 8 P.M. to Midnight
Cool and clear. Stiff breze from North.

H. C. Gearing.
Lieut U. S. N.

Examined and found to be correct.

S. W. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.															cirN		
1				N. by W.	North	4			30.2[illegible]	53	34	32		b.c.	cum	9	S.
2				"	"	4			30.26	53	34	32		"	"	8	"
3				"	"	4			30.2[illegible]	53	34	32		"	"	5	"
4				"	"	4			30.2[illegible]	53	34	32		"	"	3	"
5				N. N. W.	"	4			30.30	53	34	32		"	"	4	"
6				N. by W.	N. by W.	4			30.32	53	34	32		"	"	4	"
7				"	North	4			30.36	60	34	32		"	"	4	"
8				North	"	3			30.38	59	38	33		"	"	5	"
9				"	"	3			30.39	58	39	34		"	"	4	"
10				N. N. E.	N. E.	3			30.39	58	49	34		"	"	9	"
11				N. E. by N.	"	3			30.40	58	44	39		"	"	9	"
Noon.				E. N. E.	E. by E.	3			30.39	58	43	39		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 380 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 520 "

Coal consumed during the preceding 24 hours, 1 tons 800 lbs.

Coal remaining on hand at Noon, 56 " 1850 "

P. M.										
1		E. N. E.	E. N. E.	2	30.36	58	44	38	b.c.	cir cum	4	S.
2			E. by E.	2	30.3[illegible]	46	46	40	"	"	6	"
3		S. E. by E.	South	2	30.3[illegible]	64	48	42	"	"	6	"
4		S. S. W.	"	2	30.31	64	48	42	"	"	4	"
5		"	"	2	30.33	65	44	41	"	"	6	"
6		"	"	1	30.33	66	50	44	"	"	6	"
7		S. W. by S.	"	1	30.31	66	49	45	"	"	4	"
8		S. by W.	"	1	30.30	65	50	46	"	"	4	"
9		E. by S.	"	1-2	30.2[illegible]	66	48	45	"	"	4	"
10		E. N. E.		1-2	30.2[illegible]	66	49	45	"	rain	4	"
11		N. by E.	S. W.	2	30.26	66	49	45	"	"	3	"
Mid.		N. W.	N. W.	2	30.2[illegible]	63	43	40	"	"	3	"

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday February 16th, 1859.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clouding over towards end of watch. Clear first part. Rec. Moderate breeze from North.

P. D. Greening
Lieut U. S. N.

From 4 to 8 A. M.
Clear & cold. Moderate breeze from North. At 7½ hoisted ensign, dress & time sign at (dress blue)

C. H. G. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian.
Clear pleasant weather. Gentle breeze from N. E. & E. N. E. At 9½ quarters. Thereafter assembled landing party & read Orders in Chief's instruction for formation of Naval Brigade. At 9½ called all hands & crossed top gallant yards. Bent top gallant sails & had sail drill, leaving top gallant yards across. At 10½ Court of Inquiry convened, taking a recess till one P. M. At 11½ During watch a Japanese brig of war entered harbor under sail & anchored.

N. H. Gearing.
Lieut U. S. N.

From Meridian to 4 P. M.
Clear pleasant weather. Light breezes from E. N. E. to South. Court of Inquiry convened at 1.15 & took a recess until 10 A.M. to-morrow. Exercised and equipped Landing Party.

P. T. Watkins
Lieut U. S. N.

From 4 to 8 P. M.
Fair & pleasant. Light airs from South. Sent down top gallant yards at sunset.

N. H. Gearing.
Lieut U. S. N.

From 8 P. M. to Midnight
Generally cloudy. Light breezes from South, S. W. & N. W.

P. T. Watkins
Lieut U. S. N.

Examined and found to be correct.

A. T. Mahan Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Moorings Harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Apparent tide			N.W. by N.	N.W. by N.	1			30.22	58	42	39		bc	cumulus	8	S.
2				"	"	1			30.20	56	44	38		"	"	8	"
3				N. N.W.	"	1			30.18	56	44	38		"	"	8	"
4				N. by W.	"	1			30.16	56	44	38		"	cir cum	8	"
5				North	"	1			30.14	56	44	38		"	"	7	"
6				N. by E.	North	1			30.14	56	39	38		"	"	7	"
7				N.W.	W.N.W.	0-1			30.13	54	38	38		bcm	"	7	"
8				N.N.W.	N.N.W.	0-1			30.13	56	38	38		"	"	7	"
9				"	North	0-1			30.13	56	44	39		"	"	6	"
10				N.N.E.	"	0-1			30.15	58	42	39		bc	"	9	"
11				E.N.E.	E.N.E.	0-1			30.15	58	46	42		"	"	9	"
Noon.				E. by N.	E. by S.	0-1			30.18	58	44	42		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 1840 "

Water remaining on hand fit for use at Noon, 2000 "

Coal consumed during the preceding 24 hours, 2 tons 100 lbs.

Coal remaining on hand at Noon, 54 " 1750 "

P. M.														
1				E. N. E.	E. by N.	0-1			30.14	54	48	42	bc	cir cum	9	S.
2				E. by N.		1			30.14	56	49	44	"	"	7	"
3				N. E. by E.	N. E. by E.	1			30.14	56	49	45	"	"	8	"
4				East	"	1			30.10	56	50	46	"	"	9	"
5				N. E.	"	2			30.10	56	51	48	"	"	9	"
6				N. E.	N. by E.	2			30.02	60	51	43	"	"	5	"
7				N. N.W.	N.W.	3			30.03	69	50	44	"	cum	4	"
8				North	"	3			30.04	58	49	43	"	"	4	"
9				N. by W.	N. N.W.	2			30.06	54	49	43	"	cum str	7	"
10				North	"	2			30.04	62	49	42	"	"	6	"
11				"	North	2			30.09	64	49	42	"	"	7	"
Mid.				N. by W.	"	2			30.09	64	46	41	"	"	7	"

under the command of Commander T. F. Jewett, U. S. Navy,
Thursday February 17th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian and Unties H. A. M.
Clear and cool. Light airs from N. W. by N.

From 4 to 8 A. M. Ensign U. S. N.
Cool with variable the bay and land. Light air N. by W. Unmoored at 6 a.m. At 8 a.m. crossed light yards with Flagship.

From 8 A. M. to Meridian Lieut U. S. N.
Cloudy this a.m. then fair. At 9 a.m. assembled Battalion for landing in light marching order. Manned boats, and sent battalion ashore at 9 a.m. 3" B.L.R. (as artillery) "Marion" and "Omaha" embarking also. Boats returned at 10 a.m. Court of Inquiry met at 10 a.m. and adjourned at 11 a.m. to await action of Commander in Chief.

Geo. A. Bicknell Lieut (junr) U. S. N.

From Meridian to 4 P. M.
Clear and pleasant weather. Light Northerly breeze. Battalion ashore as part of Naval Brigade.

Geo. A. Bicknell Lieut (junr) U. S. N.

From 4 to 8 P. M.
Clear and pleasant. Light breeze from N. Eby E. Landing party returned on board at 4:40. By order of Commanding Officer Lieut J. F. Jewett under Cautrys charge for safe keeping.

From 8 P. M. to Midnight Lieut U. S. N.
Clear and cool. Light breeze from North & N. N. W.

Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut U. S. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. N. E.	North	2			30.115	74	70			bc.	cir cumm	4	S.
2				"	"	3			30.125	74	70			"	"	4	"
3				"	N. by E.	4			30.135	74	73			"	"	6	"
4				N. E. by N.	N. E.	4			30.125	74	73			"	"	8	"
5				N. E.	"	3			30.149	74	03			b.	cumu	10	"
6				"	"	2			30.148	74	03			"	"	10	"
7				"	"	2			30.204	84	03			"	"	10	"
8				"	"	2			30.214	84	13			bc.	cir cumm	9	"
9				N. E. by E.	"	2			30.255	04	83	9		"	"	9	"
10				N. E.	"	2			30.285	34	50			"	"	8	"
11				N. E. by E.	"	2			30.245	65	40			"	"	8	"
Noon.				E. N. E.	E. N. E.	2			30.265	55	40			"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙. ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 1160 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 1 tons 800 lbs.

Coal remaining on hand at Noon, 56 " 1850 "

P. M.												
1			N. E by E.	E. N. E.	2	30.225	74		bc.	cir cumm	9	S.
2			N. E. by N.	N. E.	2	30.225	94	9	"	"	9	"
3			N. N. E.	"	2	30.216	25	0	h.	ume	10	"
4			N. by E.	"	2	30.216	15	1	"	"	10	"
5			North	"	2	30.226	26	0	"	"	10	"
6			N. by W.	"	1-2	30.226	05	0	"	"	10	"
7			East	East	1-2	30.236	04	9	"	"	10	"
8			S. E.	S. E.	2	30.235	94	9	"	"	10	"
9			S. E. by S.	S. S. E.	2	30.235	64	9	"	"	10	"
10			S. by E.	South	2	30.245	64	9	"	"	10	"
11			S. S. W.	"	1	30.226	04	9	"	"	10	"
Mid.			W. S. W.	"	1	30.225	64	9	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday February 18th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Commences and ends 4 A.M.

Generally clear with cir-cumu clouds. Bright starlight. Cald. Moon rose at 2.30. Light to moderate breez from West to N. E.

A. Townsbury
Ensign U.S.N.

From 4 to 8 A.M.

Clear and cool. Inside to moderate breez from N. E. at 8. crossed royal yards and loosed sails to, a bracing time.

B.S. Waring
Lieut U.S.N.

From 8 A.M. to Meridian

Clear and pleasant. Light breez from N. E. & E. at 9.30 inspected at quarters after which exercised at fire quarters. Received an official visit from the Governor of Yokohama at 11.30. Flagship made signal 4826. Called all hands and furled sail.

A.F. Jewett
Ensign U.S.N.

From Meridian to 4 P.M.

Generally clear bright. Light cir-cumu clouds. Light part. Light breez from E. N. E. & N. E. No apparent tide. Received from U.S.S. "Omaha" John Sullivan C.P. with necessary transfer papers under sentence of General Court Martial by order of Comd'g Officer confined him in cell without irons. Naval Cadet E.R. Evans reported on board for temporary duty.

A. Townsbury
Ensign U.S.N.

From 4 to 8 P.M.

Clear & pleasant. Light breez from N. E. hauling to S. E. for end of watch.

A.F. Jewett
Ensign U.S.N.

From 8 P.M. to Midnight

Clear bright & cold. Light breez from S.S.E. at hour. Light breez to airs from South afterwards. No appreciable tide.

A. Townsbury
Ensign U.S.N.

Examined and found to be correct.

S.V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ships head													
Apparent noon				W. S. W.	South	1			30.22	56	44	42		b.	none	10	S.
2				W. by N.	"	1			30.20	66	42	40		"	"	10	"
3				S. W.	S. W.	0-1			30.17	55	41	39		"	"	10	"
4				N. W. by N.	N. W.	1			30.15	50	37	35		"	"	10	"
5				"	"	1			30.14	50	37	35		"	"	10	"
6				N. W.	"	1			30.14	51	39	36		b.c	cir-cum	9	"
7				N. W. by N.	"	0-1			30.13	50	38	36		"	"	9	"
8				"	"	0-1			30.12	50	38	36		b.cum	"	6	"
9				N. by E.	N. N. E.	0-1			30.13	50	40	38		"	"	8	"
10				S. S. W.	S. W.	4-5			30.13	56	51	46		b.c	"	8	"
11				S. W.	"	4-5			30.10	59	54	45		"	"	8	"
Noon.				"	"	4-5			30.08	59	55	45		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2440 "

Coal consumed during the preceding 24 hours, 1 tons 580 lbs.

Coal remaining on hand at Noon, 50 " 1660 "

P. M.											
1		S. W. by S.	S. W.	4	30.03	60	54	46	b.c	cir-cum	4 S.
2		S. S. W.		4	30.01	60	54	44	"	"	4 "
3		"	S. S. W.	3	30.01	61	60	49	"	"	4 "
4			South	2	30.02	62	59	50	b.	nim	10 "
5		E. S. E.	S. E.	2	30.03	61	56	49	"	"	10 "
6		E. by N.	East	2	30.08	60	53	48	"	"	10 "
7		East	"	1	30.05	61	54	50	"	"	10 "
8		N. N. E.	"	1	30.06	63	54	48	"	"	10 "
9		N. N. W.	N. N. W.	2	30.08	61	49	43	"	"	10 "
10		N. by W.	"	2	30.10	58	49	42	"	"	10 "
11		North	"	2	30.12	54	46	41	"	"	10 "
Mid.		N. E.	"	2	30.15	60	48	43	"	"	10 "

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday Febreary 19th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends A. M.
Clear and Cool. Light airs and breezes from South.

E. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M.
Clear and Cool. Light breeze from N. W.

C. F. Preston
Ensign U. S. N.

From 8 A. M. to Meridian
Generally Clear bright. Cool. Light cir cum clouds. Light airs from N. N. E. 1st hour shifting at 9 oc to S. W. in moderate to stiff breze. Squally. U. S. S. "Omaha" came on board ship at 10 oc A. M. Received coal. Received necessary transfer papers, from U. S. S. "Omaha," Sergeant John Ryan, U. S. M. C. for temporary duty. Learned of the death while on shore on liberty, of John Jamison, Seaman, death reported to have been, caused by falling into a well.

H. C. Towdy
Ensign U. S. N.

From Meridian to 4 P. M.
Clear and mild. Gentle to moderate breze from S. W. Received in pay Dept for use of crew, 38 3/4 lbs beef, 38 lbs vegetables. At 12 oc U. S. S. "Omaha" steamed out of harbor. At 4 oc funeral party on shore Lieut B. T. Walling in charge.

E. D. Galloway
Lieut U. S. N.

From 4 to 8 P. M.
Generally clear bright. Gentle to moderate breze from S. E. & East. Overhauled log by J. C. Princes and found them right. Half masted colors with U. S. Naval Hospital, during burial of J. Jamison, Seaman. Funeral parties returned at 5 oc. Went to quarters for muster after sunset and found, absents without leave Private J. Hoskop, U. S. M. C.

H. C. Towdy
Ensign U. S. N.

From 8 P. M. to Midnight
Clear and Cool. Gentle breze from N. N. W.

E. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

S. W. Williams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Osiris", 2d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ships Head													
1	Keapharuthse			E. by N.	N. E.	2			30.166	1+6	4+2			b.	cumc	10	S
2				N. E.	"	2			30.166	0+6	4+2			"	"	10	"
3				N. N. E.	"	2			30.146	0+5	4+2			"	"	10	"
4				"	"	1-2			30.126	0+5	4+2			"	"	10	"
5				N. by E.	"	1			30.125	8+5	4+1			"	"	10	"
6				N. by W.	"	1			30.115	4+3	4+0			b.c.	cumc	6	"
7				N. W. by N.	N. W.	1			30.125	5+4	3+8			"	"	4	"
8				"	"	1			30.145	5+3	3+9			"	"	4	"
9				N. N. W.	"	1-2			30.155	5+5	4+0			"	cirrus	5	"
10				North	N. by E.	1			30.146	6+4	4+2			"	cir-cumu	7	"
11				East	"	1			30.126	5+5	4+2			"	"	8	"
Noon.				E. by S.	East	1			30.046	3+5	4+6			"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2080 "

Coal consumed during the preceding 24 hours, 1 tons 250 lbs.

Coal remaining on hand at Noon, 40 " 1410 "

P. M.									
1	E. by E.	S. E.	1	30.046	3+6	b.c.	cir-cumu	8	S
2		E. by E.	1	30.026	1+6	"	"	7	"
3	S. by E.	S. W.	2	29.996	1+2	"	"	3	"
4	S. W. by W.	South	2	29.956	1+0	"	"	3	"
5	S. by W.		2	29.936	1+0	"	cumu	3	"
6	S. W. by S.	S. by W.	2	29.926	1+0	"	"	4	"
7		"	1-2	29.926	1+1	"	"	3	"
8	N. N. W.	N. W.	2	29.946	0+6	"	"	3	"
9		N. N. W.	2	29.966	0+6	"	"	3	"
10	N. by W.		2	29.966	9+6	"	"	2	"
11		N. by W.	2	29.968	2+6	b.c.	"	0	"
Mid.	North	"	2	29.958	4+6	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday February 20th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Mod. Until 4 A. M.
Clear and pleasant. Light breeze from N. E.

H. C. Gearing.
Lieut U. S. N.

From 4 to 8 A. M.
Partly clear with some clouds. Light starlight. 1st hour. Light airs from N. E. first part, shifting to N. W. Received in Pay Supt. for issue to clean ship and fresh bread.

A. Pomeroy
Ensign U. S. N.

From 8 A. M. to Meridian
Clear cool and pleasant. Gentle breeze from North. at 9.35 a.m. Usual inspection of ship and crew. Absent J. Mosso, P.M. At 10.30 sent sleeps first port watch on liberty for twenty four hours. Duncan J. Price 1st Class App. C. in double irons for ten days by order of Judge Officer for being drunk while on duty. By direction of Judge Officer removed leg irons from T. J. Clifford, 1st Class App.

Ed. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.
Fine weather. Light airs from S. E. first part, light gentle breeze from S. W. 2nd part of watch. Joseph Mosso P.M. returned from liberty 4 hours overtime.

H. C. Gearing.
Lieut U. S. N.

From 4 to 8 P. M.
Cloudy and calm. Light breeze from S. W.

Ed. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight
Cool, cloudy over. Light breeze from N. N. W. & N. by W.

H. C. Gearing
Lieut U. S. N.

Examined and found to be correct.

E. T. Mathams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ship's Head													
A. M.																	
1			Different tides	North	North	2-4			29.925	8	46	43		o.c.g.	cum cumb.	0	S.
2			"	"	"	2-4			29.905	8	46	42		"	"	0	"
3			"	"	"	2-4			29.895	8	46	42		"	"	0	"
4			"	"	"	2-3			29.885	8	46	41		"	"	0	"
5			"	N. N. E.	N. N. E.	2-4			29.885	3	46	41		"	"	0	"
6			"	N. E. by N.	"	2-3			29.895	2	45	41		"	"	0	"
7			"	"	N. E. by N.	2			29.910	2	45	41		"	"	0	"
8			"	"	"	2			29.915	2	46	41		"	"	0	"
9			"	N. N. E.	"	2			30.005	4	47	42		b.c.	"	3	"
10			"	North	North	3			30.036	4	48	42		"	"	3	"
11			"	N. N. E.	N. N. E.	3			29.990	4	48	42		"	"	3	"
Noon.			"	N. by E.	N. by E.	3			29.986	4	49	41		"	"	4	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1420 "

Coal consumed during the preceding 24 hours, 1 tons 420 lbs.

Coal remaining on hand at Noon, 48 " 960 "

P. M.																	
1			N. E. by N.	N. E. by N.	2			29.956	0	51	46		b.c.	cir cumu	6	S.
2			East	East	2			29.946	1	51	46		"	"	4	"
3			E. by S.		2			29.926	1	50	46		"	"	8	"
4			N. E. by E.	N. N. E.	3-4			29.926	0	51	42		b.c.g.	"	4	"
5			N. by W.	North	3-4			29.936	0	50	43	46	b.c.	"	8	"
6			"	"	3-4			29.965	0	51	46		"	"	4	"
7			"	"	3-4			29.975	4	49	44		"	"	6	"
8			"		2-3			29.986	4	48	43		b.	nimbus	10	"
9			N. by E.	N. N. E.	3			30.025	4	47	43		b.c.g.	cir cumu	9	"
10			N. E.	N. E.	3			30.016	3	45	42		"	"	8	"
11			N. N. E.		3-4			30.015	3	43	42		"	"	8	"
Mid.			"	N. N. E.	3-4			30.016	3	43	40		"	"	6	"

under the command of Commander T. F. Jewett, U. S. Navy,

Monday February 21st, 1857.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unfits A. M.

Overcast, cool. Light to stiff breezes from South. Squally.

B. F. Waring
Lieut U. S. N.

From 4 to 8 A. M.

Overcast and cool. Fresh breeze from N. E. At 4h 30m Flagship made divs and time signal (dress ship). At 4h 50m Flagship made signal 6 and 1. Answered. At 8h 00m crossed Royal Yards.

D. L. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian

Cloudy and pleasant. Fresh breeze from South to S. E. At 9h 30m Funeral Guards. Secured at 10h 00m. By order of the Judge Officer released J. Dunne (Blacksmith) from confinement, his time of punishment having expired. Made an examination of Vet, Gun cotton, finding it in good order. Fired magazine and shell room flood cocks.

N. H. Goaring.
Lieut U. S. N.

From Meridian to 4 P. M.

Clear and pleasant weather. Light breezes from N. E. by N. and East. Last hour light to moderate breezes in squalls from N. N. E. Overhauled torpedo wires, connections, and batteries, and found them in good working order. Sent a liberty party on shore.

B. F. Waring
Lieut U. S. N.

From 4 to 8 P. M.

Fine weather. Fresh to moderate breeze from South. Made preparations for dressing ship in the morning and at sunset sent down Royal Yards with Flagstaff.

N. H. Goaring.
Lieut U. S. N.

From 8 P. M. to Midnight

Clear and cool weather. Fresh to moderate breezes in squalls from N. N. E. and N. E. J. Hilly, P. M. was discovered to have left the ship without leave or authority.

B. F. Waring
Lieut U. S. N.

Examined and found to be correct.

S. W. Wadhams. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ships Head													
1				N. N. E.	N N. E.	3			30.025	44	40			b.o	cumu & cumu nimb	2	S
2				"	"	3			30.025	44	39			"	cir cumu	6	"
3				"	"	3			30.025	44	38			"	"	8	"
4				"	"	3			30.025	04	38			"	"	9	"
5				N. E by N.	N. E by N	3			30.025	04	38			b.	nme	10	"
6				N by E.	North	3			30.034	39	34			b.c.	cir cumu	8	"
7				"	"	3			30.054	40	34			"	"	8	"
8				"	"	3			30.094	64	39			"	"	8	"
9				N. N. E.	N. N. E.	3			30.136	04	39			b.	nme	10	"
10				"	"	3			30.166	24	39			"	"	10	"
11				N. E by N	"	3			30.166	24	42			"	"	10	"
Noon.				E. N. E.	"	3			30.156	94	42			"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1400 "

Coal consumed during the preceding 24 hours, 1 tons 250 lbs.

Coal remaining on hand at Noon, 42 " 690 "

P. M.										
1	E by N.	E N. E.	3	30.046	64	43	b.	nme	10	S.
2	E by S.	East	3	30.056	44	43	"	"	10	"
3			2	30.066	54	43	"	"	10	"
4	E by E	E by E.	2	30.066	54	44	"	"	10	"
5	S E.	"	2	30.086	34	45	"	"	10	"
6			2	30.096	14	45	b.c.	cir cumu	9	"
7	E by N.	E by N.	2	30.006	44	46	b.	nme	10	"
8	East	East	2	30.006	44	46	"	"	10	"
9	N E.	N. E.	1-2	30.196	24	46	"	"	10	"
10	"	"	2	30.176	24	46	"	"	10	"
11		"	2	30.146	24	43	"	"	10	"
Mid.	N by E.		3	30.126	24	43	"		10	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday February 22nd, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4 A. M.
Cloudy first hour, then clear. Cool. Gentle breze from N. N. E.

C. A. Degrigny
Ensign U. S. N.

From 4 to 8 A. M.
Fine weather. Gentle breze from North. At sunrise full dressed ship with "Narim" in honor of the day.

V. Graring
Lieut U. S. N.

From 8 A. M. to Meridian
Clear and cool. Gentle breze from N. N. E. At 12. Flagship "Narim" and Fort fired a Salute of 21 guns.

P. Wearing
Lieut U. S. N.

From Meridian to 4 P. M.
Clear and pleasant. Light to gentle breze from E. N. E. to E. S. E. At 3.00 Rear Admiral Chandler with, aboard the "Narim". At 3.15 "Narim" got underway and steamed out of the harbor. J. McLoughlin (2C. App) and J. Jordan (W. T.) were placed under sentry charge to await their getting sober.

C. A. Degrigny
Ensign U. S. N.

From 4 to 8 P. M.
Clear pleasant weather. Light breze from E. S. E. to E. by N. At sunset undressed ship. Expended no lantern and globe.

P. D. Wood
Lieut U. S. N.

From 8 P. M. to Midnight
Fine and clear. Light to, gentle breze from N. E.

H. C. Graring
Lieut U. S. N.

Examined and found to be correct.

S. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Starboard tack			N. E.	N. E.	0-1			30.156	34	43			b.c.	cu cumu	6	S.
2				"	"	1			30.156	34	44			"	"	6	"
3				N. N. E.	"	1			30.146	34	43			"	"	4	"
4				N. E.	"	1			30.126	24	40			"	"	4	"
5				N. E. by N.	"	1			30.146	24	41			"	"	3	"
6				N. E.	"	1			30.145	40	39			"	"	2	"
7				N. N. E.	N. by E.	1			30.154	94	38			"	"	6	"
8				N. by E.	"	2			30.154	93	38			"	"	6	"
9						2-3			30.174	84	40			"	"	2	"
10				N. N. E.	N. E.	2-3			30.196	04	42			"	"	6	"
11				N. E.		2-3			30.196	34	43			"	"	6	"
Noon.				E. N. E.	E. N. E.	2-3			30.176	34	41			"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1080 "

Coal consumed during the preceding 24 hours, 1 tons 250 lbs.

Coal remaining on hand at Noon, 46 " 640 "

P. M.											
1		N. E. by E.	N. E.	2	30.136	44	46	b.c.	cu cumu	4	S.
2		E. N. E.	"	2	30.116	44	8	"	"	4	"
3		E. by N.		2	30.126	44	8	"	"	8	"
4		N. E. by E.	East.	2	30.106	44	8	"	"	8	"
5		East.		2	30.096	48	8	"	cir cumstr	8	"
6		E. by N.	E. N. E.	1	30.106	50	46	"	"	2	"
7		N. by E.	North.	2	30.116	49	45	"	cirr	2	"
8		E. N. E.	E. N. E.	3	30.116	48	4	"	"	6	"
9		North	North	3-4	30.268	4	5	b. cf.	cu cum	4	"
10		"	"	3-4	30.260	5	4	"	"	8	"
11		"	"	3-4	30.356	4	39	c.b.cf	none	10	"
Mid.		"	"	3-4	30.156	4	38	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday February 23d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.

Partly clear with cir cum clouds. Bright starlight. Dec. Light N. E airs.

H. C. Poore Jr Esqr.
Ensign U. S. N.

From 4 to 8 A. M.

Clear and cool weather. Light airs from N. E. & N. by E. Expended in Equipment Department two hand irons, two leg irons & two keys for use on Court Martial Prisoner. At 8 crossed Royal Yards. Transferred to Navy Yard, Mare Island, California, Sergeant John Rader U. S. M. C; & John Donovan, C. Lor, a Court Martial prisoner in irons; both men with bag, hammock & effects. Naval Cadet Jenks R. Evans U. S. N. was this day detached from this vessel with orders to take charge of a Court Martial prisoner, and then to report to the Superintendent of the U. S. Naval Academy.

D. L. Davies
Lieut U. S. N.

From 8 A. M. to Meridian

Clear and pleasant. Light to gentle breeze from N. E. to E. N. E. At 9.30 A. M. inspected at quarters. Exercised 1st div at Single Sticks 2d div at Pistol, 3d div at Rifles, No 1 div at Single Sticks, Powder Div at Rifles. J. Kelley, P. M. returned on board at 11.15 A. M. and was placed under Sentry's charge to await further action of the Commander.

C. A. T. Jewett
Ensign U. S. N.

From Meridian to 4 P. M.

Clear, bright and pleasant. Light cir cum clouds. Light breeze from N. E. shifting to East last hour. Painting inside & break of poop. Sold at auction the effects of the late Seaman Leahy C. Exercised at sail drill from 2 to 3 o'clock. By order of Comd'g Officer Placed P. Torpey, P. M. under sentry's charge for being drunk & disorderly & assaulting Corporal of the Guard. Liberty party returned.

H. C. Poore Jr Esqr
Ensign U. S. N.

From 4 to 8 P. M.

Light to gentle breeze from N. to E. Dec & partially cloudy. Two Japanese men-of-war the "Kiki Kan" & "Hiojo Kan" came in & anchored. Sent an officer to pay the usual visit. Received a visit from a Japanese officer to inform us that the Emperor of Japan was expected to morrow & asking us to dress ship. Placed D. A. Campbell, C. A. T, under sentry's charge & then in double irons for being drunk to await his getting sober.

C. A. T. Jewett
Ensign U. S. N.

From 8 P. M. to Midnight

Generally clear. Dec. Bright starlight. Light cir cum clouds 1st part. Light to moderate breeze from North in squalls.

H. C. Poore Jr Esqr
Ensign U. S. N.

Examined and found to be correct.

S. W. Williams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Aground at low tide			N. by E.	North	2-3			30.09	54	42	38		b.c.	cir cum	8	S
2				North	"	2-3			30.09	53	39	34		"	"	7	"
3				"	"	3			30.08	50	39	36		"	"	7	"
4				N. by E.	"	3			30.08	50	39	36		"	"	9	"
5				N. N. E.	"	3			30.06	48	39	36		b.	nme	10	"
6				N. by E.	"	3			30.08	47	38	35		"	"	10	"
7				North	"	3			30.09	46	38	35		b.c.	cir cum	9	"
8				"	"	3			30.10	46	38	35		"	"	9	"
9				"	"	4.5			30.10	50	40	36		b.c.q.	"	9	"
10				"	"	4.5			30.10	53	42	38		"	"	9	"
11				N. by E.	"	4.5			30.10	54	43	38		"	"	9	"
Noon.				N. N. E.	N. N. E.	4			30.08	49	44	39		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 760 "

Coal consumed during the preceding 24 hours, 1 tons 760 lbs.

Coal remaining on hand at Noon, 45 " 1 80 "

P. M.																	
1			N. N. E.	N. N. E.	4			30.00	49	44	39	b.c.q.	cir cum	8	S
2			N. by E.	"	4.5			30.04	50	44	41		"	7	"
3				N. by E.	3			30.04	51	44	41	b.c.	"	7	"
4			N. by W.	N. by W.	3			30.05	51	44	41	"	"	7	"
5			North	North	3.5			30.04	51	44	41	"	cirsts	6	"
6			"	"	3.5			30.04	51	44	41	"	"	6	"
7			"	"	3.5			30.15	04	44	39	"	"	7	"
8			"	"	4.5			30.24	94	43	8	"	"	7	"
9			"	"	4			30.24	94	42	38	b.	nme	10	"
10			"	"	4			30.44	84	42	38	"	"	10	"
11			N. by E.	"	3			30.44	84	41	37	"	"	10	"
Mid.			"	"	3			30.44	84	40	36	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday February 24th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 A. M.

Clear and cold. Gentle breeze from North.

Lieut H. S. N.

From 4 to 8 A. M.

Clear and cold. Gentle breeze from North. At daylight sighted a man-of-war coming into the harbor. At 6.30 dressed ship, rainbow with the Japanese flag at the main, following the motions of the Japanese men-of-war. The newly arrived man-of-war was the "Kaitma Kan" and carried the Imperial Standard at the main. Commanding Officer made an official visit to Her. At 7 the Imperial Standard was hauled down on board the "Kaimia Kan". Manned yards following the motions of the Japanese men-of-war.

Ensign U. S. N.

From 8 A. M. to Meridian

Clear with light air cumu clouds. Bright & cool. Moderate to stiff breeze in squalls from North, shifting East hour to N. N. E. Riding to wind. At 8 Japanese Cruiser "Tsu Kushi Kan" came in. Sent an officer to extend usual courtesies. At 8.50 hauled down rainbow dressing with Japanese flagship. Captain of "Kaimia-Kan" paid an official visit to this vessel. Received a visit from an officer of "Nisi-Kan" to return thanks for visit of courtesy. Commanding Officer of "Tsu Kushi Kan" called officially. At 9.30 went to quarters for inspection after which drilled as follows: 1st & 2d divs. Great guns, Marine Guard, Skirmishers, Powder div. Stations. Absent from quarters without leave J. McGuirk, 2 C. F. & J. Neil, Ptr., At 10.20 "Tsu Kushi Kan" got underway & steamed out of harbor to the S. The following punishments were inflicted by Commanding Officer J. Jordan, Sea Appr. C., for using abusive language to Exr of boat ten (10) days double irons; E. H. Dolan, Sea Appr. C., slow in obeying orders of Officer of deck, 10 days double irons; P. Tobey, Pte. placed under sentry's charge to await trial by G. C. M. Japanese Cruiser "Nisi Kan" left the harbor. By order of Comdg Officer placed J. Farrell, C. F. under sentry's charge for being under the influence of liquor.

Ensign U. S. N.

From Meridian to 4 P. M.

Clear & cool. Moderate breeze with stiff squalls from N. N. E. At 1 P. M. exercised battalion equipped in heavy marching order. Placed under sentry's charge A. Gambles, Sea, & W. Thompson, Sea, until sober.

Lieut U. S. N.

From 4 to 8 P. M.

Clear, bright & cold. Light cir. cumu clouds. Gentle to stiff breeze in squalls from North. Moderate short sea. Comdg Officer paid an official visit to H. I. J. M. S. "Tsi Kan". Sent down topgallant yards at sunset. Sent liberty party on shore. Quarters for muster after sunset.

Ensign U. S. N.

From 8 P. M. to Midnight.

Clear & cold. Light breeze to moderate squalls from North. By order of Comdg Officer placed A. T. Bickel, 1. C. Apr, & F. J. Paynor Apr, in double irons for assaulting Exr of boat

Lieut U. S. N.

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. by E.	N. by E.	3			30.154	43	93	6		b.	nme	10	9
2				"	"	2			30.25	48	40	84		"	"	10	"
3				"	"	2			30.15	48	40	34		"	"	10	"
4				"	"	2			30.14	44	39	36		"	"	10	"
5				N. by W.	N. by W.	2			30.12	44	39	36		b.c.	cir cum	8	"
6				North	"	2			30.15	54	38	36		"	"	9	"
7				"	North	2			30.14	54	39	35		b.	nme	10	"
8				"	"	2			30.14	53	38	35		"	"	10	"
9				"	"	2			30.20	59	42	35		"	"	10	"
10				"	"	2			30.20	61	42	39		"	"	10	"
11				N. E. by N.	N. N. E.	2			30.20	63	45	43		"	"	10	"
Noon.				N. E. by E.	"	2			30.14	56	43	40		b.c.	Sct	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 420 "

Coal consumed during the preceding 24 hours, tons 2200 lbs.

Coal remaining on hand at Noon, 44 " 220 "

P. M.									
1	E. N. E.	E. N. E.	2	30.14	44	43	b.c.	cir	9	9
2		"	2	30.12	44	44	"	"	9	"
3	N. E. by E.	"	2	30.12	45	45	"	cum	8	"
4	E. by S.	E. by S.	1-2	30.12	45	46	"	"	8	"
5	S. S. E.	S. by E.	1	30.14	56	47	"	"	8	"
6	E. by N.	E. by N.	2	30.16	56	46	"	"	9	"
7	East	"	2	30.15	55	48	b.	nme	10	"
8	E. by N.	"	2	30.18	53	47	"	"	10	"
9	East	East	1	30.21	53	48	b.c.	cir cum	8	"
10	N. E.	N. E.	1	30.21	49	46	"	"	8	"
11	N. by E.	"	1	30.21	48	46	"	"	6	"
Mid.	N. by W.	N. W.	2	30.20	44	45	o.c.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Friday February 25th, 188[illegible].

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.
Fair, cool weather. Light breeze from N. by E.

N. le Gearing.
Lieut U. S. N.

From 4 to 8 A. M.
Clear bright and cold. Light air, cumulous first part. Light breeze from North and N. by W. Liberty party returned. Released from sentry's charge A. Campbell, Sea., J. Farrell C. P. M. and Wm. Thompson Sea., At 8 o'c crossed top gallant yards, and loosed edile to a bowline.

E. Townsend
Ensign U. S. N.

From 8 A. M. to Meridian
Clear, and cool. Light breeze from N. N. E. At 9 o. inspected at quarters and exercised 1st 2d & 3d divisions. Prac. Gunr. Powder div. Stations & trying flood cocks. Placed T. J. Gaynor 1. C. app'd A. P. Birbeck 1. C. Aft, in double irons to await sentence by Court Martial by order of Cond'g Officer. At 10 h. Summary Court C. S. Galloway Lieutenant, Senior Member met for trial of J. Kelley, P. M, and such other persons.

C. S. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.
Fine clear weather. Light breeze from E. N. E. At 1 o. quarters to turn in scrubbed hammocks. Summary Court Martial reconvened at 1 o. and adjourned at 2 o. to await action of reviewing authority. Scraped spars.

H. le Gearing.
Lieut U. S. N.

From 4 to 8 P. M.
Clear, cool and pleasant. Light breeze from S. E. backing to E. by N. At sunset exercised at fire quarters 1st Steam 2d div 45 s, 2d 1st div 48 s 3d 3d div 1m 20 s, 4th Engs div 1m 40. Placed J. A. Williams, 2. C. app, under sentry's charge for gross insolence to Chief Boatswain Mate to await action of Cond'g officer by direction of Executive Officer.

C. S. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight.
Cool and pleasant. Light airs from N. E. with light breeze from N. W. last hour.

H. le Gearing.
Lieut U. S. N.

Examined and found to be correct.

F. W. Williams. Lieut & Navigator.

LOG of the UNITED STATES Steamer Ettrick, 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
Apparent tide				North	Calm	0			30.20	54	46	42		b.c.	cir cum & cumf	3	S.
2				N. by E.	"	0			30.19	54	45	43		"	cir cum	3	"
3				"	"	0			30.18	54	45	43		"	nme	10	"
4				N. by W.	W. N. W.	0-1			30.17	54	44	42		"	"	10	"
5				N. N. W.	N. N. W.	1			30.16	53	42	41		"	"	10	"
6				N. W. by N.	W. N. W.	1			30.15	58	42	40		"	"	10	"
7				N. by W.	N. N. W.	1			30.16	52	39	38		b.c.	cir cum	8	"
8				N. W. by N.	"	1			30.15	50	39	38		"	"	8	"
9				"	N. W. by N.	1-2			30.17	50	43	41		"	"	6	"
10					Calm	0			30.19	65	46	43		"	cum nimb	5	"
11				N. N. W.	"	0			30.18	65	48	46		"	"	4	"
Noon.				E. N. E.	East	1-2			30.15	62	48	45		"	cir cum	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 120 "

Coal consumed during the preceding 24 hours, 1 tons 360 lbs.

Coal remaining on hand at Noon, 42 " 2100 "

P. M.										
1		E by N	East	1-2	30.08	54	48	45	b.c. cir cum	3 S.
2		East	E. N. E.	2	30.04	54	49	46	" "	5 "
3		E by S.	"	1	30.04	62	50	48	" "	6 "
4		"	S. E.	1	30.02	58	50	47	" "	6 "
5		"	S. E.	1	30.03	58	51	48	" "	4 "
6		East	E. S. E.	1	30.03	58	51	48	" "	4 "
7		"	"	0-1	30.04	58	51	49	b.c. cum nimb	0 "
8		N. E.	"	1-0	30.06	54	51	49	" "	0 "
9		N. N. E.	N. N. E.	1	30.04	58	53	51	" "	0 "
10		N. E.	N. E.	1-2	30.04	58	53	51	" "	0 "
11		"	"	1-2	30.03	58	51	50	" "	0 "
Mid.		North	North	1-2	30.03	58	50	39	" "	0 "

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday February 26th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unthe A. M.
First part cloudy, latter part clear. Light airs from W.N.W & Calms.
D. Walling
Lieut U. S. N.

From 4 to 8 A. M.
Clear and cool. Light airs from N. N. W. First day.
C.D. Galloway
Lieut U. S. N

From 8 A. M. to Meridian
Pleasant weather. Calm. Light breeze from East last hour. Discharged load of ashes into, an, ash lighter from shore. Released from confinement by order of Comdr Comdg Patrick Shipperus Swaffr. C, his sentence by Summary Court having expired. Released J.A. Williams, 2 C. Art, from extra duty by order of Comdr Comdg gave him three months extra duty for gross insolence to Chief Boatswains Mate. Chief Engr Stivers & Passt Engr Barton left the ship on forty eight hours leave of absence.
H. LeGraving.
Lieut U. S. N

From Meridian to 4 P. M.
Generally clear. pleasant weather. Light airs & breezes from East & N. N. E. Commenced distilling at 2:00.
D. Walling
Lieut U. S. N.

From 4 to 8 P. M.
Pleasant weather. clouding over last part. Light airs from E. S. E. Quarters at sunset. Absentees without leave Prov. Band Corporal & J. M. Gunr 2 C. F. Sent on shore a small liberty party. J. W. Gunr, 2 C. F, returned from liberty 2 hours overtime. Distilling.
H. LeGraving.
Lieut U. S. N.

From 8 P. M. to Midnight.
Overcast cool weather. Light airs from N. N. E. Light airs to light breezes from N. E & E.
D. Walling
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
12				N by W.	North	1-2			30.005	48	46			bc.	cr cumm	2	S
2				North	"	2			29.985	54	46			"	"	5	"
3				N. by W.	"	2			29.955	54	45			"	"	4	"
4				"	"	3			29.935	53	43			"	"	3	"
5				North	"	1			29.935	54	43			o.c.	cumm nimb	0	"
6				"	"	1			29.935	54	43			"	"	0	"
7				N by W.	N. N. W.	1			29.935	54	43			"	"	0	"
8				"	"	1			29.935	54	43			bc.	"	2	"
9				"	North	1			29.935	54	44			"	"	2	"
10				N. N. W	"	1			29.946	52	45			o.c.	"	0	"
11				N by W	"	1			29.96	48	46			o.cp.	"	0	"
Noon.				N by E.	N. E.	1			29.96	50	44			"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water Distilled during the preceding 24 hours, 2000 "

Water remaining on hand fit for use at Noon, 1800 "

Coal consumed during the preceding 24 hours, 2 tons 820 lbs.

Coal remaining on hand at Noon, 40 " 1280 "

P. M.																
1				N. N. E.	N. N. E.	2			30.84	56	49			o.c.d.	cumm nimb	0	S
2				N. E by N.	N. E.	2			30.886	56	49			"	"	0	"
3				N. E.	"	2			30.866	56	49			"	"	0	"
4				East	"	2			30.836	56	49			"	"	0	"
5				E by N.	"	2			30.846	54	50			o.c.	"	0	"
6				N. E by N.	"	1			30.806	52	50			bcd.	cr cumm	3	"
7				N. E by E.	"	1			30.76	56	49			"	"	4	"
8				North	N. W.	2			30.76	58	49			bc.	"	2	"
9				N. N. W.	N. N. W.	2			30.785	59	50			"	"	3	"
10				"	"	2			30.78	58	49			o.c.	cumm nimb	0	"
11				N. by W.	N. by W.	2-3			30.78	58	46			"	"	0	"
Mid.				North	North	3			30.78	58	44			o.c.r.	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,
Sunday February 27th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A. M.
Partly cloudy. Light hs. gentle breze from North.

From 4 to 8 A. M. A. T. Leighton Ensign U. S. N.
Cloudy and cool. Light breze from North and N. N. W. Distilling.

From 8 A. M. to Meridian. J. H. de Gearing Lieut U. S. N.
Overcast, cool weather. Light airs from North and N. E. at 9:30 Commanding Officer inspected ship with crew at quarters.

From Meridian to 4 P. M. B. F. Dading Lieut U. S. N.
Overcast and cloudy with occasional light drizzling rain. Light airs from N. N. E. and N. E.

From 4 to 8 P. M. A. T. Leighton Ensign U. S. N.
Cloudy cool weather; drizzling rain and thirds hours. At 6. this divine service the Rev Henry Loomis officiating.

From 8 P. M. to Midnight B. F. Dading Lieut U. S. N.
Overcast and cloudy with light rain at end of watch. Light hs, gentle breze from N. W. to North.

A. T. Leighton Ensign U. S. N.

Examined and found to be correct.

S. V. Wadham Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Apparent time			North	North	3			29.785	4	4	4	2	o.c.r.	cumulus	0	S.
2				"	"	3			29.795	4	4	4	2	o.c.	"	0	"
3						2-3			29.805	4	4	4	2	"	"	0	"
4				N. E.	N. E.	2-3			29.805	4	3	4	2	"	"	0	"
5				"	"	3			29.765	2	4	4	3	b.c.	cir cumu.	6	"
6				"	"	3			29.765	1	4	4	3	"	"	7	"
7				N. E. by N.	"	3			29.765	0	4	0	2	"	"	8	"
8				N. N. E.	N. N. E.	3			29.785	0	4	3	0	"	"	5	"
9				"	"	3			29.813	9	4	4	2	"	"	4	"
10				"	"	2-3			29.816	1	4	6	2	"	"	6	"
11				"	"	3			29.815	9	4	8	3	"	"	6	"
Noon.				N. E.	E. N. E.	3			29.805	8	4	8	4	"	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water Distilled during the preceding 24 hours, 1520 "

Water remaining on hand fit for use at Noon, 3000 "

Coal consumed during the preceding 24 hours, 2 tons 2/20 lbs.

Coal remaining on hand at Noon, 38 " 560 "

P. M.										
1	E. by N.	East	2	29.786	2	4	4	5	cumu	S.
2			2	29.765	4	4	4	5	"	"
3	East	E.	2	29.762	5	0	4	6	"	"
4	"	"	1	29.765	0	4	4	3	"	"
5	"	"	1	29.765	1	4	8	4	cumulus	"
6	E. by N.	"	1	29.765	1	4	8	0	o.c.	"
7	W. by N.	West	0-1	29.765	1	4	8	0	"	"
8	N. W. by N.	"	0-1	29.765	0	4	4	0	"	"
9		N. W.	1	29.760	5	0	4	5	"	"
10	N. N. W.	"	2	29.765	4	8	4	3	b.c.	"
11	"	"	2	29.765	4	4	4	3	"	"
Mid.	North	North	1	29.765	4	4	4	3	"	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday February 28th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A. M.

Overcast, cloudy and cool with cumulus clouds. Raining 1st hour. Light to gentle breeze from North, shifting to N. E. last hour Saturday.

H. C. Poundstone.
Ensign U. S. N.

From 4 to 8 A. M.

Generally clear and cool. Heavy clouds to S. and E. Gentle breeze from N. E.

L. A. Wasing
Asst. Eng. U. S. N.

From 8 A. M. to Meridian

Weather pleasant. Partially cloudy. Light to gentle breeze from N. N. E. and E. N. E. At 9 30, called all hands and cleared ship for action. Then beat to Quarters, and exercised. Secured at 10 12. At 11 20 called all hands to muster and published sentences of Summary Court Martial in the cases of Patrick Torpey, P. M. for assaulting the Corporal of the Guard and of P. Fahey, P. M. for absenting himself from the ship without leave. Both were found guilty, the former sentenced to solitary confinement in double irons on bread and water for thirty days with a full ration every fifth day and the latter to solitary confinement in double irons on bread and water for fifteen days with a full ration every fifth day and to extra police duties from three months from the expiration of his confinement. Both sentences ordered into execution. By order of Commander confined H. Evelyn, C. C., on bread and water for five days for attempting to smuggle liquor.

A. T. Long
Ensign U. S. N.

From Meridian to 4 P. M.

Cloudy, and cool. Cloudy cum. Light breeze from East first part, shifting to S. E. latter part, falling last hour to light airs. Overhauled and tarred S. C. torpedo cable "Light Star" left the harbor. Got 2d cutter ready for painting. Shifted 1st cutters falls and fore end. Overhauled Duty J. C. Printers and found them right.

H. C. Poundstone.
Ensign U. S. N.

From 4 to 8 P. M.

Generally cloudy. Light variable airs. At sundown sent down topgallant yards and masts.

A. T. Long
Ensign U. S. N.

From 8 P. M. to Midnight

Partly clear, bright starlight, cool. Clouds cum and mink. Light airs to breeze from N. W, shifting to North last hour.

H. C. Poundstone.
Ensign U. S. N.

Examined and found to be correct.

F. N. Williams. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
Apparent time				N. by W.	North	2			29.46	53	56	42		b.c.	cum nim	3	S
2				N. by E.	"	2			29.46	52	56	42		"	"	2	"
3				"	"	1			29.46	52	56	42		o.c.	"	0	"
4				North	"	1			29.44	52	56	41		"	"	0	"
5				"	"	1-2			29.48	51	54	41		b.c.	cum	3	"
6				"	"	2			29.48	51	54	41		"	"	4	"
7				N. by W.	"	1-2			29.49	52	53	41		"	"	4	"
8				North	"	1			29.49	52	53	40		"	cu-cum	5	"
9				N. by W.	"	3			29.49	50	44	40		"	str cum str	8	"
10				"	"	3			29.48	50	47	42		"	cum	8	"
11				N. by W.	"	3-4			29.80	60	48	42		"	str	9	"
Noon.				N. by E.	"	3-4			29.80	60	49	43		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2680 "

Coal consumed during the preceding 24 hours, 1 tons 60 lbs.

Coal remaining on hand at Noon, 32 " 500 "

P. M.									
1	North	N. N. E.	3	29.80	61	54	b.c.	cu-cum	6 S
2	N. by W.	N. by E.	3	29.78	59	51	44	" "	5 "
3	N. N. E.	"	3	29.78	59	50	44	" "	2 "
4	North	N. N. E.	4	29.78	59	50	43	" "	5 "
5	N. by E.	"	3-4	29.78	56	49	43	" "	4 "
6	"	N. by E.	3-4	29.82	54	49	42	" "	4 "
7	North	North	3-5	29.83	52	46	41	o.c. cum nim.	0 "
8	"	"	3-5	29.84	52	46	40	" "	0 "
9	"	"	3-4	29.84	51	43	39	o.c. cu-cum.	0 "
10	N. by E.	"	3-4	29.86	51	43	39	" "	0 "
11	N. N. E.	"	3	29.86	51	42	39	b.c. "	2 "
Mid.	"	"	2	29.85	51	41	38	" "	4 "

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday March 1st, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4 P. M.
Cloudy and cold. Light breze from North.
C. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M.
Partially cloudy. Light breze from North. At 8m sent up topgallant masts and crossed topgallant yards.
A. T. Longstaff
Ensign U. S. N.

From 8 A. M. to Meridian.
Clear, bright and cool with cir-cumm. cumm and str-cloude. Latter to moderate breze from North. At 9.35m went to quarters, after which drilled as follows: 1st Div Great Guns 2nd & Powder Single Sticks 3d Rifles Gat Machine Guns Marines Skirmish Drill. At 10.30m called away all boats armed and equipped & exercised boats by signals from ship. Received in Engineers Dept 100 from boiler tubes.
A. T. Longstaff
Ensign U. S. N.

From Meridian to 4 P. M.
Cloudy and cold. Latter breze from N. N. E. At 10m exercised companies of Naval Brigade. At 1m Japanese Flagship "Kaimon" went to Sea. Received for use of crew 138 3/4 lbs fresh beef, 138 vegetables and 11 lbs bread. Rove off new chips for topgallant-lifts.
C. D. Galloway
Lieut U. S. N.

From 4 to 8 P. M.
Cloudy and cold. Overcast latter part. Cirro-cumm. cumm & mixed. Latter breze in squalls from N. N. E. to North. At 5m mustered at quarters. Sent down topgallant-yards at sunset.
A. T. Longstaff
Ensign U. S. N.

From 8 P. M. to Midnight
Cloudy & cold first part, clear & cold latter part. Light breze from North.
C. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

A. T. Wareham Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ships Head													
Apparent tide				North	North	2			29.855	42	39			b.c.	cir cum	8	S
2				N. N. W.	N. W.	1-2			29.855	42	39			"	"	9	"
3				N. N. W.	"	2			29.855	41	37			"	"	9	"
4				N. by W.	North	3			29.849	40	36			"	cum	9	"
5				N. N. W.	"	3			29.847	38	35			h.	nmc	10	"
6					N. N. W.	2			29.847	39	34			"	"	10	"
7				N. by E.	"	2			29.884	63	35			b.c.	cir cum	8	"
8					North	2			29.894	63	36			"	"	8	"
9				N. N. E.	N. N. W.	2-3			29.914	44	36			h.	nmc	10	"
10					"	3			29.935	24	36			"	"	10	"
11				N. N. W.	"	3-5			29.905	64	38			"	"	10	"
Noon.				N. by W.	"	3-5			29.895	64	39			"	•	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° 3' "

Water expended during the preceding 24 hours, 320 gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2360 "

Coal consumed during the preceding 24 hours, 1 tons 160 lbs.

Coal remaining on hand at Noon, 36 " 340 "

P. M.																	
1				N. by W.	N. N. W.	3-4			29.825	46	40			b.c.	cum	9	S
2				"	"	3			29.825	48	42			"	cir cum	2	"
3				N. by E.	N. N. E.	3			29.825	25	43			"	"	2	"
4				N. by W.	North	3			29.825	49	43			"	"	2	"
5				North	"	3			29.825	49	43			"	"	9	"
6				"	"	3			29.865	44	42			"	"	8	"
7				"	"	4			29.850	44	40			"	cum	9	"
8				N. by W.	"	3-5			29.850	43	39			h.	nmc	10	"
9				"	"	3			29.895	0	38			"	"	10	"
10				"	"	3			29.905	1	38			b.c.	cir cum	8	"
11				"	"	3			29.904	9	38			"	"	9	"
Mid.				N. N. W.	"	3			29.904	9	38			"	"	8	"

under the command of Commander T. F. Jewett, U. S. Navy,
Wednesday March 2d, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.
Clear and cool. Light breze from North & N. W.
N. Gearing.
Lieut U. S. N.

From 4 to 8 A. M.
Clear bright and cool. Light cir. cumulus clouds latter part. Gentle breze from North 1st hour light N. N. W. breze afterwards. Got anchor stanchions out of fore Locd. Bent light sails. Liberty party returned at 8 o'c crossed light yards
W. Towne Jr.
Ensign U. S. N.

From 8 A. M. to Meridian
Clear & cool. Stiff to fresh breze from N. N. W. At 9.30 went to quarters and exercised 1st 2d & 3d Divs at great guns, Hand Stations, Marines Skirmish Drill. At 10.30 exercised shifting topsails. Confined A. Campbell Sea for (10) ten days in double irons for being drunk on duty by order of Offg Officer. Fired gun at noon.
Lieut U. S. N.

From Meridian to 4 P. M.
Clear and cool. Gentle breze from N. N. E. to N. N. W.
H. Gearing.
Lieut U. S. N.

From 4 to 8 P. M.
Clear and cool. Moderate breze from North. At sunset sent down light yards and bent light sails.
C. P. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight
Clear and cool. Gentle breze from North.
H. Gearing.
Lieut U. S. N.

Examined and found to be correct.

A. T. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ships Head													
1	Apparent Calm			N. W.	N. N. W.	2			29.88	48	03	41		b.	none	10	S
2				N. 16 W.	"	2			29.88	48	39	36		b.c.	cir. cum.	9	"
3				N. by W.	North	2			29.88	48	39	36		"	"	9	"
4				North	"	2			29.89	48	03	41		b.	cum.	10	"
5				N. W. by N.	N. W.	2			29.89	48	39	36		"	"	10	"
6				"	"	2			29.89	48	39	35		b.c.	cir. cum.	8	"
7				"	"	1-2			29.90	48	39	36		"	"	8	"
8				N. by E.	North	1-2			29.90	48	40	36		"	"	8	"
9				North	"	1			29.90	48	42	39		"	"	8	"
10				N. by E.	N. by E.	1-2			29.90	48	45	42		"	"	8	"
11				"	"	2			29.90	49	44	42		"	"	9	"
Noon.				"	"	1-2			29.88	50	49	44		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water ——————— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2040 "

Coal consumed during the preceding 24 hours, 1 tons 160 lbs.

Coal remaining on hand at Noon, 35 " 180 "

P. M.								
1	North.	North.	1	29.85	49	44	b.c. cir. cum.	S.
2	N. N. E.	N. N. E.	2	29.85	52	50	" "	6 "
3	"	"	3	29.85	50	44	" "	6 "
4	"	"	2	29.84	52	50	" "	4 "
5	"	"	2	29.88	54	50	" "	3 "
6	N. W. by W.	N. W. by W.	1-2	29.90	56	50	" "	2 "
7	N. by W.	North	2	29.90	56	49	" "	4 "
8	North	"	2	29.96	04	64	" "	5 "
9	"	"	2	29.96	04	54	" "	5 "
10	"	"	2-3	29.96	54	39	" cum.	2 "
11	N. by E.	"	2	29.95	54	39	" "	2 "
Mid.	"	"	1	29.95	54	40	" "	2 "

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday March 3d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unfit 4 A.M.
Clear & cold. Light breeze from N. N. W. & North.
B. F. Waesing
Lieut U. S. N.

From 4 to 8 A.M.
Clear & cold. Light breeze from N. W. Lowered Sailing Launch. Fitted out landing party in readiness to leave the ship in heavy marching order. At 8 a.m. crossed light-yards.
D. Galloway Lieut U. S. N.

From 8 A.M. to Meridian
Clear and cool. Light breeze from North to N by E. At 10 a.m. Battalion left the Ship in heavy marching order
Geo. H. Bicknell Lieut Comdr U. S. N.

From Meridian to 4 P.M.
Clear and cool. Light breeze from N. N. E. At 3 p.m. Battalion returned on board.
D. Galloway Lieut U. S. N.

From 4 to 8 P.M.
Clear and cool. Light breeze from N. N. E. to N. W. by W. At sunset sent down Night yards. Quarterly board of Survey, condemned 1 3/4 lbs Bacon, value 4 c. having been eaten by rats.
B. F. Waesing.
From 8 P.M. by Midnight
Overcast. Light airs to gentle breezes from North.
Lieut U. S. N.
B. F. Waesing
Lieut U. S. N.

Examined and found to be correct.

S. W. Graham Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
Sapporo Head				N. E.	N. E.	2			29.955	44	34	0		b.c.	cumu cir cumu	4	8
2						2			29.955	44	34	0		"	"	4	"
3				N. by E.	"	2-3			29.965	44	34	0		"	"	8	"
4				N. N. E.	"	3			29.945	44	34	0		"	cir-cum	9	"
5				N. by E.	N. N. E.	1			29.905	14	03	8		"	"	8	"
6				N. N. E.	North	2			29.925	14	03	8		"	"	8	"
7				"	"	1			29.945	13	93	7		"	"	9	"
8				North	"	1			29.945	14	03	8		"	"	9	"
9				N. N. E.	N. N. E.	1			29.945	14	13	8		"	"	9	"
10				E. N. E.	East	1			30.005	44	44	1		"	"	9	"
11				E. by N.	N. E.	1			29.995	34	43			"	cir	9	"
Noon.				E.	E.	1-2			29.985	14	43			"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 17 20 "

Coal consumed during the preceding 24 hours, 1 tons 160 lbs.

Coal remaining on hand at Noon, 34 " 20 "

P. M.											
1	E. S. E.	S. E.	2	29.965	44	34	8	b.c.	cir-cum	8	S.
2	S. E.		2	29.955	44	43	8	"	"	8	"
3	S. E. by S.	S. E. by S.	2	29.965	44	44	8	"	"	8	"
4	S. S. E.	"	2	29.965	04	6	8	"	"	8	"
5	South	N. by E.	2	29.965	04	5	8	"	cumu-str	4	"
6	North	North	2	29.965	14	5	8	"	"	3	"
7	N. by W.	"	2	29.985	44	2	8	"	cir-str	6	"
8	North	"	1-2	29.995	44	2	8	"	"	8	"
9	N. by E.	"	1	30.005	44	1	8	"	cir-cum	4	"
10	"	"	2-3	30.005	34	39	8	"	"	6	"
11	North	"	2-3	30.005	24	38	8	"	"	8	"
Mid.	"	"	2-3	30.005	14	37	8	b.c.	cumu	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday March 4th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Commences and Ends 4 A.M.
Clear and cool. Light airs & gentle breeze from N. E.

From 4 to 8 A.M. Asst Engineer
Clear and cool. Light air from North. Cleaned bilges at 8 o'c crossed fore gallant yards and loosed sails to a bowline. Japanese Training brig left the harbor. Workmen from shore at 7 o'c to work on boilers.
Lieut U. S. N.

From 8 A.M. to Meridian
Clear cool weather. Light airs from N. E. East & N. E. Light airs and breezes from S. E. at 9:30 inspected at Quarters. Exercised Marines as skirmishers. Powder Div. at Powder Station: 3d Div. at Gunnery instructions: 2d & Navigators Div at Rifles. 1st Div. at Single Sticks. Absent without leave W. J. McFadden Ord. app. 2 C & J. F. Cunningham Lds. Tested flood cocks and found them in good working order.
P. H. Watkins
Lieut U. S. N.

From Meridian to 4 P.M.
Weather pleasant. Light breeze from S. E. & S. E. by S. Partially cloudy at 3:50 furled sails. Received in Pay Dept. 138 lbs Fresh Beef, 135 lbs Fresh Vegetables & 111 lbs Fresh Bread.

From 4 to 8 P.M. Asst Engineer
Generally clear, cool. Light breeze from N. by E. & North. Received in Engineers Dept the following stores viz: 16 lbs Muriatic Acid 4 bags Charcoal, 200 lbs Blacksmiths Coal, 100 lbs Cement, 300 bolts & nuts (iron). Received in Navigation Dept one (1) gallon Sperm Oil for illuminating purposes.
P. H. Watkins
Lieut U. S. N.

From 8 P.M. to Midnight
Clear and cool. Light to gentle breeze from North.
Asst Engineer
U. S. N.

Examined and found to be correct.

W. W. Mackenzie Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ship's Head													
1			apparent	North	North	2-3			30.025	40	37			b.	nme	10	S.
2				"	"	3			30.015	03	36			b.c.	cir cum	9	"
3				"	"	3			30.004	93	35			"	"	9	"
4				"	"	3			30.004	83	35			"	"	9	"
5				"	"	2			30.035	03	35			"	"	8	"
6				"	"	2			30.025	03	36			"	"	8	"
7				"	"	2			30.064	83	36			"	"	8	"
8				N. E.	N. E.	2			30.084	83	36			"	cum	7	"
9				N. N. E.	E.	2			30.075	83	36			"	"	3	"
10				E. N. E.	E. N. E.	1			30.071	63	40			"	cir cum	6	"
11				E. by S.	E. S. E.	1			30.071	62	42			"	"	7	"
Noon.				E. S. E.	S. E.	2			30.059	45	41			"	"	8	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1400 "

Coal consumed during the preceding 24 hours, 1 tons 360 lbs.

Coal remaining on hand at Noon, 32 " 1900 "

P. M.									
1	S. E. by S.	S. S. E.	1-2	30.046	38	44	b.o.	cir cum	8 S.
2	S. S. E.	"	1-2	30.026	24	44	"	"	7 "
3	"	"	1	30.026	05	45	"	"	7 "
4	"	"	1	30.026	05	43	"	"	3 "
5	S. by E.	"	1	30.026	94	44	"	"	5 "
6	S. S. W.	N. by W.	1	30.056	85	45	"	"	2 "
7	N. W.	"	2	30.065	49	45	"	"	2 "
8	N. W. by W.	"	2	30.045	84	44	"	"	7 "
9	"	"	3	30.105	64	42	"	"	7 "
10	N. W.	"	3	30.105	64	41	"	"	6 "
11	"	N. N. W.	3-4	30.135	64	41	"	"	2 "
Mid.	"	"	3-4	30.135	61	37	"	"	3 "

under the command of Commander T. F. Jewett, U. S. Navy,
Saturday March 5th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A M

Clear bright and cold. Light cirrus clouds. Hoisted at at 2 30 Light to gentle breeze from East.

A. F. Fechteler
Ensign U. S. N.

From 4 to 8 A. M.

Clear and cool. Light breeze from North and N. E. P. & O Steamer left the harbor

E. H. Watring
Lieut U. S. N.

From 8 A. M. to Meridian.

Clear and pleasant. Light breeze from N. N. E. to S. E. at 9 30 inspected at quarters. Absent without leave W. J. Mc. Fadden Sea App 2 C. and Jr. F. Cunningham Lds. Inspected bags. At 10 00 W. J. Mc. Fadden, Seaapp 2 c. and J. F. Cunningham, Lds. were brought on board by the United States Marshal. Confined them in double irons to await trial by Court Martial. Piped bedding.

A. F. Fechteler
Ensign U. S. N.

From Meridian to 4 P. M

Generally clear with light cir-cumu clouds. Bright, and cool. Light airs to breeze from S. S. E. Overhauled Dry G. C. Runners and found them right. Stowed air & bedding. Received in Pay Dept for issue to crew 137 1/4 lbs each of fresh beef and vegetables and 111 lbs bread.

A. F. Fechteler
Ensign U. S. N.

From 4 to 8 P. M.

Clear and cool. Gentle breeze from S. S. E and E. by N. At Sunset mustered at Quarters.

A. F. Fechteler
Ensign U. S. N.

From 8 P. M. to Midnight

Generally clear and cool. Gentle breezes from N. W and gentle to moderate breezes from N. N. W.

E. H. Watring
Lieut U. S. N.

Examined and found to be correct.

F. V. Wadhams. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	No apparent tide			N. by E.	North	2-3			30.135	1+1	38			b.c.	cir-cum	4	S.
2				N. N. E.	N. N. E.	2-3			30.135	1+1	37			"	"	6	"
3				N. E. by N.	N. E.	2-3			30.135	1+0	37			"	"	4	"
4				"	"	2			30.136	1+0	37			"	Cirrus	3	"
5				N. E.	"	3			30.125	1+1	39			"	"	2	"
6				"	"	3			30.145	0+1	38			"	"	2	"
7				N. E. by N.	N. E. by N.	3			30.154	8+0	37			"	"	2	"
8				N. E.	"	3			30.164	7+0	37			"	"	3	"
9				"	N. E.	3			30.195	8+2	39			"	cirrus	4	"
10				"	"	3			30.226	4+5	41			"	cir-cum	6	"
11				"	"	2			30.206	4+6	42			"	"	6	"
Noon.				"	"	2			30.186	2+6	42			"	"	4	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1080 "

Coal consumed during the preceding 24 hours, 1 tons 360 lbs.

Coal remaining on hand at Noon, 31 " 1540 "

P. M.											
1	E. by N.	East	2	30.136	2+5	41	b.c.	cir-cum	0	S.
2	East	"	1	30.106	4+6	42	"	"	0	"
3	"	"	1	30.065	3+4	43	"	"	0	"
4	E. N. E.	"	0-1	30.065	4+8	44	"	"	0	"
5	N. by E.	Calm	0	30.065	8+9	44	b.c.	cir-cum	1	"
6	N. N. W.	"	0	30.075	8+9	44	"	cir-cum	3	"
7	N. W.	"	0	30.085	5+0	45	"	"	2	"
8	"	"	0	30.085	4+9	46	"	"	5	"
9	"	N. W.	1-2	30.105	4+6	45	"	"	4	"
10	"	"	1-2	30.105	4+5	43	b.	cum	10	"
11	"	"	1-2	30.095	4+5	42	b.cu.	cum	4	"
Mid.	"	"	1-2	30.085	3+1	39	"	"	4	"

under the command of Commander T. F. Jones, U. S. Navy,
Sunday March 6th, 1859.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clear and cool. Gentle breze from N. E. Moonlight first part.

From 4 to 8 A. M. C. D. Galloway Lieut U. S. N.
Generally cloudy. Cool. Gentle breze from N. E. & N. E. by N.

From 8 A. M. to Meridian C. A. Degrim Ensign U. S. N.
Partly clear, bright & cool. Cum & cir: cum clouds. Light to gentle N. E. breze. At 9 30 went to quarters. Commanding Officer inspects ship & crew. After quarters, held General Muster & read Articles of War. By order of Comdg Officer, released J. Jordan, Seaman & M. F. Dolan the terms for which they were confined having expired. Placed F. Gaynor 1. C. aft & A. T. Birkett 1. C. aft, in single irons. American ship "G. F. Manin" came in and moored.

From Meridian to 4 P. M. H. C. Poundstone Ensign U. S. N.
Overcast & cool. Light breze from East.

From 4 to 8 P. M. C. D. Galloway Lieut U. S. N.
Cloudy and cool. Clouds cir-cum & str. Bright moonlight last hour. Calm. No apparent title. At 5 30 P. M. Lieut Commd'g, came on board, drunk, and was put under Sentry's charge to get sober. Held Divine Service on Berth deck.

H. C. Poundstone.

From 8 P. M. to Midnight H. C. Poundstone Ensign U. S. N.
Clear & cool. Light haze. Light airs from N. W. Bright moonlight.

C. D. Galloway Lieut U. S. N.

Examined and found to be correct.

A. T. Wareham Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A.M.				Ships Head													
Apparent time				N.W. by W.	N.W.	2			30.05	13	74	65		b.c.s.	cir-cumm	7	S.
2				N.N.W.	N.N.W.	3			30.06	48	63	54		"	"	5	"
3				"	"	3			30.01	48	63	54		"	"	2	"
4				"	"	4			30.01	48	34	35		b.c.	"	2	"
5				N. by W.	N. by W.	3			30.02	46	38	35		o.c.	cum-cumb	0	"
6				"	"	4			30.03	44	39	36		"	"	0	"
7				"	"	3			30.06	44	40	38		"	"	0	"
8				"	"	2			30.02	48	40	38		b.c.s.	cir	1	"
9				"	North	2			30.13	64	42	39		o.c.s.	cumcumb	0	"
10				North	"	2			30.13	64	43	41		"	"	0	"
11				N.N.E.	N.E. by N.	2			30.16	74	56	52		b.c.	cir-cumm	3	"
Noon.				N.E. by N.	"	2			30.08	62	64	63		"	"	3	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 7160 "

Coal consumed during the preceding 24 hours, 1 tons 160 lbs.

Coal remaining on hand at Noon, 30 " 1380 "

P. M.												
1	N.E.	N.E.	2	30.06	60	48	46	b.c.	cir-cum	5	S.
2	East	East	2	30.03	60	48	45	"	"	6	"
3	"	"	2	30.02	60	47	44	"	"	4	"
4	E. by S.	"	2	30.00	60	47	44	"	"	6	"
5	"	"	3	29.99	60	47	44	"	"	2	"
6	"	"	3	30.00	54	47	45	b.c.s.	"	3	"
7	"	"	2	30.02	53	47	44	o.c.	"	0	"
8	East	"	2	30.04	53	47	44	"	"	0	"
9	N.E. by N.	N.E. by N.	1	30.02	60	48	46	"	"	0	"
10	N.E.	Calm	0	30.96	60	48	45	"	"	0	"
11	"	N.E.	1	30.13	94	64	62	"	"	0	"
Mid.	N.E. by N.	N.E. by N.	1	30.13	56	44	41	"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,

Monday March 7th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.

Clear overhead, misty over bay, and land. Fresh breeze from N. N. W.

H. le Gearing
Lieut U. S. N.

From 4 to 8 A. M.

Overcast, cloudy and cold. Clouds cumulus. Snowing last hour. Fresh to moderate breeze from N. by W. Made preparations for coaling ship. Hoisted whale boat in on starboard forecastle. Liberty party returned. Crossed royal yards at 8 o'c.

E. C. Pollenstorf
Ensign U. S. N.

From 8 A. M. to Meridian.

Cloudy and cool. Fresh breeze from North. Light spits of snow. Engaged coaling ship. Received 94 tons of coal. A Board of Survey of which Surgeon J. A. Hawke was senior member condemned and ordered to be thrown overboard 1800 lbs hard bread value 94 50, it being filled with weevils & mouldy, probable, long continued heat, open purchase Gibraltar. By direction of Fleet Surgeon J. A. Williams, U. S. Navy, was relieved, and granted leave of absence for 24 hours from noon.

C. D. Galloway
Asst Surgeon U. S. N.

From Meridian to 4 P. M.

Cold and pleasant. Light breeze from East & N. E. Finished coaling ship at 1.30 taking in, all, 75 tons. By order of Fleet Surgeon and in accordance with the recommendation of Board of Survey held this forenoon, threw overboard 1800 lbs of biscuit. Sent an officer to board the American ship "Jno F Nazro" 116 days from Falmouth England. Sighted the incoming Pacific Mail Steamer "City of Sydney" & at 3 58 fired two guns & hoisted ensign at fore to signal arrival of American Mail. Expended in Ordnance Department 2 - 10 in 9" charges & 2 percussion primers.

H. le Gearing.
Lieut U. S. N.

From 4 to 8 P. M.

Cloudy raw and cool. Moderate breeze from East. Sent an officer to board American steamer "City of Sydney". Received in Engr Dept 2 cast grate bars for steam cutter. At sunset sent down top gallant masts & light yards. At 6 00 started distilling into the tanks. At 6 10 mustered at quarters. J. W. Deming, M. A., absent without leave.

C. D. Galloway
Asst Surgeon U. S. N.

From 8 P. M. to Midnight

Cloudy & cool. Calm and light N. E'ly airs. Distilling

H. le Gearing.
Lieut U. S. N.

Examined and found to be correct.

S. W. Wadhams
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
Apparent time				N. E.	N. E.	2			30.136	64+2				b.c.	CUUU	2	S.
2				"	"	2			30.156	64+2				"	"	2	"
3				"	"	2			30.156	64+2				"	"	2	"
4				"	"	2			30.156	64+2				"	"	3	"
5				North	North	2			30.154	62	39			"	"	4	"
6				N. N. E.	"	2			30.151	61	38			"	"	4	"
7				N. by E.	"	2			30.136	04	034			"	"	6	"
8				North	N. N. W.	2			30.165	03	836			"	"	2	"
9				N. by W.	North	2			30.254	04	138			"	cir. cum.	4	"
10				N. N. E.	N. N. E.	1-2			30.24½	44	40			"	"	4	"
11				N. E. by E.	N. E. by E.	1-2			30.23½	46	42			"	"	8	"
Noon.				E. N. E.	"	1-2			30.216	62	43			"	"	4	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water Distilled during the preceding 24 hours, 1260 "

Water remaining on hand fit for use at Noon, 12700 "

Coal consumed during the preceding 24 hours, 1 tons 1564 lbs.

Coal remaining on hand at Noon, 103 " 2056 "

P. M.												
1		N. E.	N. E.	2	30.156	48	43	b.c.	cir. cum.	6	S.
2		"	"	2	30.162	49	44	"	"	5	"
3				2	30.106	35	45	"	"	2	"
4		N. E. by E.	N. E. by E.	1-2	30.086	35	45	"	"	2	"
5		N. E.	N. E.	2	30.106	04	43	"	cuuu	2	"
6		East	East	2	30.105	46	43	"	"	3	"
7		E. by S.	"	2	30.105	46	42	"	"	4	"
8		"	"	2	30.105	49	46	"	"	5	"
9		N. E. by E.	N. E.	1	30.086	05	46	l.c.	cum-nim	0	"
10		N. E. by N.	"	1	30.063	48	45	l.c.	"	0	"
11		"	"	1	30.056	49	46	l.c.	"	0	"
Mid.		N. N. E.	"	2	30.156	49	46	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday March 8th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 P.M.

Cloudy cool weather. Light breezes from N. E. Sitting.

D. T. Wayne
Lieut U. S. N.

From 4 hrs. 8 A.M.

Cloudy raw and cold. Light breze from North & N.W. At 8 A.M. sent up topgallant masts & crossed topgallant yards. Sitting.

Chas Holloway
Lieut U. S. N.

From 8 A.M. to Meridian.

Fine pleasant weather. Light breze from North to N.E. by E. At 9 A.M. hoisted out steam cutter. At 9:30 quarters. Part of watch engaged in taking in stores. Received the following stores: In Equipt 5 lbs Cotton Twine, 4 lbs Line. in Engrs 2 bbls Line. in Navigation 10 gals Oil for illuminating purposes. in Pay Dept 6 bbls Pork, 3 bbls Flour, 2 bbls Rice 3 lbs Beef, 1 bbl Molasses, 1 bbl Vinegar, 5 kegs Pickles, 300 lbs Oatmeal, 100 lbs Dried Fruit 112 lbs Butter, 200 lbs Tomatoes, 1200 lbs Canned Meat, 320 lbs Ham, 3 1/4 lbs Bacon, 480 lbs Coffee, 62 lbs Tea, 500 lbs Canned Vegetables. At 10 A.M. Japanese Corvette "Kishin" anchored in harbor. Sent an officer to board with usual offer of services. Sitting.

N. C. Gearing
Lieut U. S. N.

From Meridian to 4 P.M.

Clear pleasant weather. Light airs & breezes from N. E. Received a visit from an officer of I. J. S. "Kishin" requesting that this vessel participate in the ceremonies attending the entry into this port of the Empress Dowager of Japan. Engaged shoving hands scraping cleaning and painting woodwork. Received in Dept Prov & Clo 138 3/4 lbs fresh fish 138 3/4 lbs vegetables, 111 lbs fresh bread: issued same to crew. Sitting.

D. T. Wayne
Lieut U. S. N.

From 4 hrs. 8 P.M.

Cloudy pleasant weather. Light breze from N. E. to East. At 4 P.M. quarters, and sweeps, and clean hammocks. Made preparations for dressing ship and manning yards, in the morning. Sitting.

N. C. Gearing
Lieut U. S. N.

From 8 P.M. to Midnight.

Overcast and cloudy. Fine & mild clouds. Drizzling at 1 A.M. part with squall, at 4 hour Raining latter part. Light airs to breze from N. E. Sitting.

H. Thurston
Ensign U. S. N.

Examined and found to be correct.

F. V. Williams
Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A.M.				Ships Head													
Mapparent noon				N. N. E.	N. N. E.	2			29.96	63	45	44		0. Cr.	cum-nimb.		
2				N. by E.	"	2-3			29.88	54	44	43		"	"		
3				"	"	3			29.86	55	43	42		"	"		
4				"	"	3			29.83	54	43	42		"	"		
5				"	"	3-5			29.94	54	42	41		"			
6				North	North	3			29.96	53	42	41		"			
7				"	"	3			29.98	53	46	42		"			
8				East	East	3			29.92	51	46	45		"			
9				N. E.	N. E.	4-6			29.44 29.43	51	46	45		"			
10				N. by E.	N. by E.	4			29.38 29.39	51	46	45		"			
11				N. E. by N.	N. N. E. by N.	5-8			29.20 29.12	50	45	46		0. cgs.			
Noon.				West	S. E. by S.	2-5			29.05 29.99	52	49	48		"			

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by , ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water ~~distilled~~ during the preceding 24 hours, 1420 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 2 tons 1256 lbs.

Coal remaining on hand at Noon, 101 " 800 "

P. M.																	
1				N. W. by N.	N. W. by N.	5-4			29.00	49	40	39		0. c. g.	cum-nimb.	0	S.
2				N. W.	N. W.	4-6			29.04	48	40	39		"	"	0	"
3				"	"	3-5			29.04	48	42	41		"	"	0	"
4				"	"	3-5			29.12	48	43	41		"	"	0	"
5				N. W. by W.	N. W. by W.	3-4			29.16	50	44	43		0. c. g. r.	"	0	"
6				N. W. by N.	N. W. by N.	3-4			29.19	50	44	43		"	"	0	"
7				"	"	3-5			29.23	49	44	42		0. c. g.	"	0	"
8				"	"	3-5			29.24	49	44	41		"	"	0	"
9				"	"	3-5			29.31	48	44	41		0. c.	"	0	"
10				"	"	3-5			29.34	48	45	41		0. c.	"	0	"
11				N. N. W.	N. N. W.	4			29.34	49	45	41		"	Circum	2	"
Mid.				"	"	3-4			29.41	49	46	42		0. c.	"	2	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday March 9th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.

Cloudy and rainy. Light to gentle breeze from N. to E.

C. F. Leavitt
Ensign U. S. N.

From 4 to 8 A.M.

Overcast and raining all the watch. Gentle breeze from North, hauling to East. Barometer falling 29.83 - 29.52. Steam cutter disabled at 7.10, by blowing out gasket of steam pipe. Sent mail on shore at 7.20.

H. C. Gearing
Lieut U. S. N.

From 8 A.M. to Meridian

Overcast squally and rainy. First hour moderate to fresh breeze from N.E. shifting to N. by E. second hour and blowing in frequent fresh squalls. Third hour with fresh breeze to moderate gale in squalls from N. by E. to N.E. continuing during last hour until 11.40 when it shifted rapidly blowing light by East to South to W.N.W. Moderate broken sea ship pitching lightly. At 11. sent down top gallant yards and masts. At end of watch light breeze with moderate squalls from W.N.W. Barometer falling rapidly until watch. I.J.S. "Nishin" came in and anchored. O & O.S.S. "Elgin" went to sea at 11.30. At 10.45 started fires in boilers 5 & 7.

P. D. Wadleigh
Lieut U. S. N.

From Meridian to 4 P.M.

Cloudy squally, and raining. Wind in very fresh squalls from N.W. by W. during first hour. Moderating towards end of watch. During last three hours wind from N.W. & varying from gentle to fresh.

C. F. Leavitt
Ensign U. S. N.

From 4 to 8 P.M.

Overcast weather. Raining first half of watch. Gentle to stiff squalls from N.W. by N. to N.W. by W. Received an official visit from an officer from the I.J.S. "Nishin" notifying us that the Empress Dowager had arrived at 5 P.M. sent up top gallant masts & yards.

P. D. Wadleigh
Lieut U. S. N.

From 8 P.M. to Midnight

Cool and clear with squalls from N.W. by W. and N.N.W.; Gentle to fresh.

C. F. Leavitt
Ensign U. S. N.

Examined and found to be correct.

H. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ship's Head													
1				N.W. by N.	N.W. by N.	2			29.445	0	64	62		h.c.	cir.cum	4	S.
2				"	"	3-4			29.495	0	46	42		"	"	4	"
3				"	"	4-5			29.595	0	46	42		"	"	5	"
4				N. by W.	N. by W.	3-5			29.565	2	46	42		"	"	5	"
5				N.W. by N.	N.W. by N.	2-4			29.585	1	46	42		"	cum.nim.	3	"
6				N.N.W.	N.N.W.	3			29.665	0	46	42		o.c.	"	2	"
7				"	"	3			29.674	9	46	42		o.c.	"	2	"
8				"	"	3			29.694	9	46	42		"	"	2	"
9				"	"	3			29.734	9	46	44		"	"	3	"
10				N. E.	N. E.	4			29.745	0	48	40		"	cum	5	"
11				"	"	4			29.806	2	52	48		"	"	5	"
Noon.				N. by W.	North	4			29.806	2	52	46		"	cir.cum	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2480 "

Coal consumed during the preceding 24 hours, tons 2148 lbs.

Coal remaining on hand at Noon, 100 " 892 "

P. M.											
1		N. by W.	N. by W.	4	29.745	3	52	47	h.c.g.	cir.cum	8	S.
2		"	"	4	29.785	6	52	48	"	"	8	"
3		"	"	3-4	29.815	3	52	48	"	"	8	"
4		"	"	3-4	29.815	4	54	49	"	"	8	"
5		North	North	3	29.835	3	54	48	"	"	9	"
6		N. by W.	N. by W.	3	29.855	4	54	48	"	"	8	"
7		"	"	3	29.925	4	52	44	"	"	7	"
8		"	"	3	29.945	2	44	40	h.	nne	10	"
9		"	North	4	29.985	2	42	39	"	"	10	"
10		North	"	3	29.995	2	44	39	"	"	10	"
11		"	"	3	30.005	0	41	39	"	"	10	"
Mid.		N. N. E.	"	3-2	30.015	0	41	39	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday March 15th, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends A. M.

Partly clear, with cir. cum clouds. Hour showing occasionally Light to stiff breeze in squalls from N.W. by N. shifting last hour to N.W. Barometer rising.

H. Townsend
Ensign U. S. N.

From 8 A. M. to Meridian.

Cool, partially cloudy. Gentle to moderate breeze from N.E. to N.N.W. Preparing for, a reception to be given this P.M.

C. A. Jeffers
Ensign U. S. N.

From Meridian to 4 P. M.

Generally clear, bright and cold. Cir. cum clouds. Gentle to moderate breeze in squalls from N. by W. Barometer rising.

H. Townsend
Ensign U. S. N.

From 4 to 8 P. M.

Clear and cool. Gentle breeze from North & N.W.

C. A. Jeffers
Ensign U. S. N.

From 8 P. M. to Midnight

Clear and cold. Bright moonlight. Gentle to moderate breeze from North, falling to light breeze last hour.

H. Townsend
Ensign U. S. N.

From 4 to 8 A. M.

Squally and overcast first part, clearing last part. Gentle to moderate breeze from N.W. by N. to N.N.W.

B. T. Waring
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams Lieut
Navigator.

LOG of the UNITED STATES Steamer "Essex", 2d Rate,

Moored in the Harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED, by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A.M.				Variation	N. N. E.	N. N. E.	2		30.014	42	39			h	nme	10	S.
2				N. E. by N.	"	2			30.035	42	39			"	"	10	"
3				N. N. E.	North	1-2			30.035	42	39			b.c.	cir cum	9	"
4				N. N. W.	N. N. W.	1			30.025	42	39			"	"	8	"
5				N. W.	N. by W.	1			30.025	42	39			"	cir	9	"
6				W. by N.	W. by N.	1			30.045	42	40			"	cir cum	6	"
7				W. N. W.	Calm	0			30.045	04	40			"	"	4	"
8				N. W.	"	0			30.045	04	38			b cum	"	4	"
9						0			30.065	41	39			b.c.	"	4	"
10				N. N. W.	N. N. W.	1			30.086	42	49			"	"	2	"
11				E. N. E.	East	1			30.059	44	48			"	"	4	"
Noon.				"	"	1			30.055	44	43			"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2160 "

Coal consumed during the preceding 24 hours, 1 tons 624 lbs.

Coal remaining on hand at Noon, 99 " 348 "

P. M.												
1		E. N. E.	E. N. E.	1	30.025	49	45	b.c.	cir cum	6	S.
2		East	East	1	30.005	25	46	"	"	8	"
3			"	1	29.985	25	46	"	"	8	"
4		E. by S.		1	29.985	25	44	"	cum	6	"
5		E. by S.	E. by S.	0-1	29.965	25	44	"	cir str	8	"
6		S. E. by E.	Calm	0	29.965	25	48	"	"	8	"
7		E. N. E.		0	29.935	25	49	"	"	9	"
8		N. W. by N.	N. W.	0-1	29.935	25	49	"	"	9	"
9		N. W.	"	1	29.955	49	48	b.c.	cir cum	8	"
10		"	"	1	29.955	47	46	"	"	8	"
11		"	"	1	29.935	46	45	"	"	8	"
Mid.		"	"	1	29.945	46	46	"	"	7	"

under the command of Commander T. F. Jewell U. S. Navy,
Friday March 11th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From 12 to 4 A. M.
Commences and ends clear and cool. Light breeze from North. Bright moonlight.
C. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M.
Weather pleasant. Partially cloudy. Hazy latter half of watch. Calm and light airs from N. & N.W.
Ensign U. S. N.

From 8 A. M. to Meridian
Partly clear bright and cool. Cir. cum clouds. Calm 1st hour. Light variable airs afterwards. At 8h 0m loosed sail to a breeze. Had steam cutter towed off to ship. Commanding Officer paid an official visit to H. I. J. M. S. "Yaeyama". At 9h 0m went to quarters for inspection after which drilled as follows: 1st Div. Cutlass Sticks 2d & 3d Divs. Small Arms, 3d Machine Guns, Powder Instruction, Marines, Bayonet Exercise. Got steam launch in.
W. L. Tongue Stone
Ensign U. S. N.

From Meridian to 4 P. M.
Clear and pleasant. Light breeze from N. E. by E. Hoisted out whale boat her repairs being completed and hoisted her at davits. Received 150 lbs beef, 150 lbs vegetables 1/2 lbs bread. At 2h 0m furled sails. Engineers Force overhauling boiler of steam cutter. Commanding Officer of Japanese Corvette "Fuso" paid an official visit to ship.
C. D. Galloway
Lieut U. S. N.

From 4 to 8 P. M.
Primarily clear bright and cool. Light cir. str clouds. Light airs from E. S. E. 1st hour. Calm afterwards. Received an official visit from Captain of H. I. J. M. S. "Fusi-Kan". Overhauled by J. C. Pruiss and found steam right. Got ready for dressing ship (painted) Unmanning yards. Went to Flag Quarters after sunset. All ready in 1m.
W. L. Tongue Stone
Ensign U. S. N.

From 8 P. M. to Midnight
Clear and cool. Light fog & light breeze from N. W. Bright moonlight.
C. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

S. V. Wrenn Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A.M.																	
1	Apparent time			N. W.	N. W.	1			29.965	0	45	44		b.c.q.	cir cum	6	2
2					"	1			29.995	0	45	44		"	"	7	"
3				N. N. W.	"	1			29.985	0	45	43		"	"	8	"
4					"	1			29.96	0	45	42		b.c.u.	"	8	"
5				N. N. E.	Calm	0			29.885	5	43	42		b.c.q.	"	7	"
6				N. N. W.	Variable	0-1			29.855	5	43	42		"	"	7	"
7				N. W. by W.	"	0-1			29.855	4	42	41		"	"	7	"
8				N. W.	N. N. W.	1			29.865	4	41	40		b.c.	"	2	"
9				N. N. W.	"	1			29.856	3	43	41		"	"	6	"
10				S. W. by S.	S. W.	3-5			29.856	5	53	49		"	"	4	"
11				S. W.	"	3-6			29.806	5	60	54		b.c.q.	"	7	2
Noon.				"	"	3-7			29.74	6	26	1	05	"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 920 gallons.

Water——————— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1840 "

Coal consumed during the preceding 24 hours, tons 1688 lbs.

Coal remaining on hand at Noon, 98 " 800 "

P. M.														
1			S. S. W.	S. W.	6-7	29.71	62	61	56	b.c.q.	cir cum	5	2
2			S. W.	S. W. by W.	7-8	29.68	62	61	55	b.c.q.	cum nim	2	"
3			"	S. W.	7-8	29.61	62	61	55	"	"	0	"
4			"	"	7-8	29.59	62	60	59	"	"	0	"
5			S. S. W.	S. S. W.	6-8	29.59	61	59	56	"	"	0	"
6			"	"	6-8	29.59	61	59	56	"	"	0	"
7			"	"	6-8	29.50	61	59	56	"	"	0	"
8			"	"	7-8	29.42	61	59	54	"	"	0	"
9			"	"	7-9	29.38	61	59	56	b.c.q.	cum nim	0	"
10			"	"	8-10	29.30	61	60	54	b.c.q.	cum nim	2	"
11			S. by W.	S. by W.	8-10	29.26	61	61	58	b.c.q.	cum nim	0	"
Mid.			S. S. W.	S. S. W.	10-6	29.25	61	60	54	b.c.q.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday March 12th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A. M.

Pleasant weather with light airs from N. W. Brig at moorings

H. C. Gearing
Lieut U. S. N.

From 4 to 8 A. M.

Partly clear bright and cool. Foggy until last hour. Calm 1st hour. Light airs afterwards from West to N. N. W. "Foo-Yo" left the harbor at 4.30. At 7.30, dressed ship rainbow with "Nisi-Kan" Japanese ensign at the main which vessel fired a salute of 21 guns. At 7.25 H. I. J. M. S. "Kamimi-Kan" with Japanese Empress Dowager came in, also "Foo-Yo" & "Tsukashi-Kan." At 8.0 manned yards with Japanese vessels all of which fired salutes of 21 guns as the Empress Dowager left for shore. Extended usual courtesies with Marine Guard.

N. C. Comstock
Ensign U. S. N.

From 8 A. M. to Meridian

Fair and mild. Quite large from N. W. shifting in squalls to S. W. at 10 blowing fresh at times. Fired day. Discharged ab. Seaman Ldo, at his own request by order of Grand Officer. At 8.0 sent boarding officer to extend usual courtesies to Japanese men-of-war "Hamma," "Fuso" later "Kaimon" came in and was boarded also "Yuido," later "Keiwan," "Yoshin" "Hamma," "Kiuis" went to sea. At 9.40 piped down dress ship flags following motions Japanese flagship. Released from confinement A. Campbell, Sea, and L. J. Drumm B Smith times having expired by order of Grand Officer. Liberated J. O'Neil Pte to Landsman.

E. P. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Cloudy and blowing a moderate gale from S. W. Barometer 29.71 - 29.59

H. C. Gearing
Lieut U. S. N.

From 4 to 8 P. M.

Cloudy first part, overcast with rain latter part. Moderate gale with very heavy squalls from S. W. Barometer falling rapidly - at times 6 o'clock. At 8.0 let sheet anchor go under foot and coaster braced yards.

E. P. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight

Cloudy, obscured moonlight at times. Drizzling rain with squalls. Blowing a fresh gale from S. W. with frequent very heavy squalls. Moderating last half hour. Barometer falling slowly 29.4 29.25. At 8.30 veered to 1/2 fms port chain 2 3/4 fms m sheet chain.

H. C. Gearing.
Lieut U. S. N.

Examined and found to be correct.

A. Wadhams. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Etah", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.				Ships Head													
Xapparent tide				S.W. by W.	S.W.	6-4			29.286 0						cum		
1				S.W. by W.	S.W.	6-4			29.246 0	58	56			b.c.gr.	cum nimb	3	
2				N.E.	N.E.	3-4			29.276 0	58	56			b.c.	cum nimb.	0	
3				N.E. by E.	"	2-4			29.286 0	46	41			b.c.	cir cum	5	
4				N.E.	"	3			29.286 0	52	50			"	"	4	"
5				N. by E.	North	3			29.336 0	46	46			b.c.g.	"	5	"
6				N.N.W.	"	3			29.396 0	50	46			b.c.r.g.	"	6	"
7				N. by W.	N.W.	3-4			29.466 0	49	45			b.c.g.	cum	4	"
8				N.W.	"	3-6			29.516 0	48	44			"	"	6	"
9				N.W. by N.	"	4-5			29.536 0	48	42			b.c.	"	8	"
10				W.N.W.	"	4-5			29.556 0	50	43			"	cir cum	8	"
11				"	W.N.W.	4-5			29.636 0	51	43			"	"	8	"
Noon.				N.W.	N.W. by N.	3-5			29.666 0	53	48			"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water——————during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1520 "

Coal consumed during the preceding 24 hours, 1 tons 24 lbs.

Coal remaining on hand at Noon, 97 "534"

P. M.									
1	North	N. by W.	3-5	29.686 0	54	43	b.c.g.	cir cum	4
2	N. by W.	"	3-4	29.766 0	51	48	"	"	7
3	"	"	2-3	29.726 0	52	46	"	"	8
4	"	"	2-4	29.726 0	55	54	"	"	8
5	North	"	2-4	29.766 0	55	54	"	"	8
6	"	North	3-5	29.746 0	52	42	"	"	8
7	"	"	2-4	29.796 0	56	50	b.	nme	10
8	N. by W.	"	3-5	29.806 0	54	39	"	"	10
9	North	"	3-5	29.806 0	54	38	"	"	10
10	N. by W.	"	3-4	29.846 0	54	38	"	"	10
11	North	"	3-4	29.846 0	54	37	"	"	10
Mid.	N. N. W.	"	1-2	29.886 0	54	38	"	"	10

under the command of Commander T. F. Train, U. S. Navy,

Sunday March 13th, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Commences, and Ends 4 A.M.

Clearing weather. Wind moderating. At 12:40 it shifted quickly to W.N.W and N.E. Squally. Raining first hour.

L. B. D. Waring
Lieut U.S.N.

From 4 to 8 A.M.

Cloudy unsettled first part with rain squall between 5 & 6 o'clock. Wind gentle from North, then clearing weather. Moderate breeze with fresh squalls from N.W. Hoar in starboard sheets & hove in port chain to mooring swivel. Barometer rising .23 since 4 o'clock.

C. H. Galloway
Lieut U.S.N.

From 8 A.M. to Meridian

Clear and cool. Moderate to stiff breeze from N.W. & N.W. by W. at 9.30 ship and crew at quarters inspected by Comdg Officer. The Comdr Comdg paid official visits to H.I.J.M. Ships "Koshin" & "Kiwan". Received a visit of courtesy from an officer of H.I.J.M. Ship "Koshin." By order of Comdr Comdg placed C. H. Dolan, Sea Appr. 2, in confinement in double irons, for five (5) days, for using abusive language to sentry.

H. McGowing.
Lieut U.S.N.

From Meridian to 4 P.M.

Clear and pleasant. Light to stiff breezes in squalls from N. by W. Received in Dept. Provisions & Clothing & issued to crew 138¾ lbs fresh beef, 138¾ lbs fresh vegetables & 111 lbs fresh bread.

L. B. D. Waring
Lieut U.S.N.

From 4 to 8 P.M.

Clear and cool. Moderate breeze from North.

H. McGowing.
Lieut U.S.N.

From 8 P.M. to Midnight

Clear and cool. Light airs to stiff breezes in squalls from North. By order of Comdg Officer placed J. Charette, Sea Appr. 2, under sentrys charge till sober.

L. B. D. Waring
Lieut U.S.N.

Examined and found to be correct.

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A.M.																	
Apparent time				N.W.	N.W.	1			29.92	52	52	38		b.c.	cr cumu	8	S.
2				N. by W.	N. by W.	2			29.92	52	41	04		b.	cume	10	"
3				"	"	2			29.94	53	41	34		"	"	10	"
4				N. N. W.	N. W.	2			29.94	53	41	34		"	"	10	"
5				"	"	2			29.93	61	52	39		"	"	10	"
6				N. by W.	N. by W.	2			29.95	51	41	38		b.c.	circumu	2	"
7				N. N. W.	"	2			29.95	50	41	34		"	"	6	"
8				"	"	2			30.00	49	42	34		"	"	6	"
9				"	"	2			30.01	49	43	39		"	cumu	4	"
10				"	"	2			30.08	63	56	41		"	"	3	"
11				N. by E.	North	2			30.09	63	47	43		"	"	2	"
Noon.				E. N. E.	E. N. E.	2			30.06	63	49	44		"	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 330 gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1200 "

Coal consumed during the preceding 24 hours, tons 2056 lbs.

Coal remaining on hand at Noon, 96 " 2108 "

P. M.												
1		E. by S.	E. by E.	2	30.01	68	44	43	b.c.	cir cumu	2	S.
2		E. S. E.		2	29.99	68	48	46	"	"	2	"
3		S. E.	S. E.	2	29.99	69	49	44	"	"	6	"
4		S. E. by S.	"	1-2	29.99	69	49	44	"	"	6	"
5		S. E. by E.	"	1-2	29.99	60	49	46	"	"	8	"
6		S. E.	"	0-1	30.00	60	49	46	"	"	2	"
7		S. E. by S.	Calm	0	30.00	66	51	49	"	"	2	"
8		S. by W.		0	30.02	64	52	48	"	"	4	"
9		S. E.	S. E.	1	30.03	64	52	49	"	"	6	"
10			"	1	30.02	60	51	48	"	N	"	6	"
11		W. S. W.	W. S. W.	1-2	30.01	60	51	48	"	cumu	cumb	6	"
Mid.		W. N. W.	W. N. W.	1	30.00	60	50	48	"	cir	cumu	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Monday March 14th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and Unties A. M.
Clear, and cool. Bright moonlight. Light breze from N. W. and N. by W.

C. F. Jewell
Cusign U. S. N.

From 4 to 8 A. M.
Clear and cool. Light breze from N by W. & N. W. At 8 crossed Royal yards. Shore workmen for work on boilers, came on board at 7.25

From 8 A. M. to Meridian
N. B. Swaine
Lieut U. S. N.
Clear and pleasant. Light breze from North, N. W. & N. E. At 9:30 called "Clear ship for Action": ready in 18 minutes. At 9:50 beat to Gunal Quarters. Divisions ready as follows: Third Div. 1m 05s. Second Div. 3m 45s. First Div 5m 40s. Powder Div 10m 06s. Navigators div 1m 20s; Engineers div 1m 35s. Marines 1m 35s. Beat Secure at 10:35. Called all hands and secured aloft: piped down at 11:25. By order of Gundg Officer relased F. Charette Sea Appr 2 C. Received in Light of Provisions & Clothing 8 barrels Sugar, 4 bgs Beans. Tested electrical apparatus & connections & found them in good condition. Absent without leave J. Finch Sea Appr 2 C.

From Meridian to 4 P. M.
B. H. Wiggins
Lieut U. S. N.
Clear and pleasant. Light breze from S. E. & E. S. E. Received in Equipt Light 50 lbs Lamp Black, 50 lbs White Lead, 5 lbs Patent Dryer, 2 lbs Venetian Red, 10 Gals Linseed Oil, 5 Gals Alcohol, 100 sheets Sand Paper.

C. F. Jewell
Cusign U. S. N.

From 4 to 8 P. M.
Clear and pleasant. Light airs and breezes from S. E. & Calms By order of Gundg Officer confines A. Campbell, Sea, in double irons for further Jackin for being drunk in boat. At 7 secured down hoh gallant cndsts & Yards.

B. H. Wiggins
Lieut U. S. N.

From 8 P. M. to Midnight.
Light variable airs. Raining slightly during second hour. End of watch clear & pleasant.

C. F. Jewell
Cusign U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
Apparent time				N.W.	N.W.	2			29.976	54	54	46		b.c.p.	cirstr	8	S.
2				N.W. by N.	"	2			29.965	54	54	41		"	"	8	"
3				N.N.W.	"	1-2			29.965	54	54	41		b.c.w.	"	9	"
4				"	"	1			29.946	54	54	42		"	"	9	"
5				N.W. by W.	"	1			29.955	54	54	42		b.c.	cir	9	"
6				North	"	1			29.965	54	54	42		b.c.p.	circum	8	"
7				N.W. by W.	"	0-1			29.936	54	53	42		"	"	8	"
8				N.W.	W.N.W.	0-1			29.925	54	54	41		b.c.w.	"	8	"
9					Calm	0			29.905	64	54	46		"	"	9	"
10				S.W.	S.W. by S.	2			29.845	85	14	14		b.c.	"	9	"
11				S.W. by W.	"	4-5			29.846	25	14	14		b.g.	nmr	10	"
Noon.				S.W. by S.	"	4-6			29.815	85	24	18		b.c.g.	circum	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 880 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.														
1				S.W. by S.	S.W.	4-5			29.785	85	80		str circum	9	S.
2				"	"	5-6			29.760	85	80		" "	9	"
3				"	"	5-6			29.746	05	90		" "	2	"
4				"	"	5-6			29.736	05	90		" "	2	"
5				S.W. by W.	"	5-6			29.736	05	90		" "	6	"
6				N. by E.	N. by E.	3-5			29.786	05	84		" "	6	"
7				"	"	3-4			29.815	64	24	18	" "	8	"
8				"	"	3-4			29.845	64	24	13	" "	8	"
9				N. N. E.	N. N. E.	3-4			29.865	44	64	42	b.c. cmm	8	"
10				N. by E.	"	3-4			29.885	34	44	40	" "	9	"
11				N. N. E.	"	3			29.895	24	83	83	" cumstrat	8	"
Mid.				North	North	3			29.885	14	23	8	" "	2	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday March 15th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.

Generally clear bright and cool. Foggy 1st part Hazy afterwards. Light cirr. str. clouds. Bright moonlight. Light airs to breeze from N.W.

H.C. Poundstone
Ensign U.S.N.

From 4 to 8 A.M.

Clear and pleasant. Light airs from N.W. & Calms. At 8. sent up top gallant masts and Yards.

L.B.Y. Waring
Lieut U.S.N.

From 8 A.M. to Meridian

Clear and pleasant until 10.30 with calms & light airs from S.W. Last half of watch wind in squalls from S.W. by S. freshened to stiff. At 9.30 inspected at quarters and exercised 1st Div. Instructions at Machine Guns, 2d Div. Single Sticks, 3d Div. Rifles, Powder div. Stations. At 10.20 Armed boats for distant service. Exercised at fleet tactics until 11 AM. By order of Commander placed J. Frie, Lds. in solitary confinement on bread & water for three days for using obscene language to sentry at quarters found F.J. Link, Sea Appr. 2.c., absent without leave, Disrated H. Schrenger, Tailor, to Seaman, for repeated neglect of duty. Released from confinement W.J. McFadden, Sea Appr. 2.c., J. Cunningham Las & J. Kelly P.M.

C.A.T. Feaster
Ensign U.S.N.

From Meridian to 4 P.M.

Bright & cool. Clouds cir-cumm. & str. Hazy with flying dust & Sand. Moderate to very fresh breeze in squalls from S.W. Served out clothing. Overhauled and refitted reels of portable & ships firing batteries. Received in Pay Dept. for issue to crew, 40 lbs each of pork beef & vegetables & 112 lbs Bread.

H.C. Poundstone
Ensign U.S.N.

From 4 to 8 P.M.

Clear & cool. Wind in stiff squalls from S.W. until 5.30 when shifted to N. by E. & moderated. At 5 to mustered at quarters. At sundown sent down top gallant yards & bent light sails.

C.A.T. Feaster
Ensign U.S.N.

From 8 P.M. to Midnight.

Partly clear with cirr & cumul clouds. Fresh to moderate breeze from N.N.E, shifting to North last hour. Standing over with rainy appearance last hour. A large Steamer anchored inside Light Ship at 9.20.

H.C. Poundstone
Ensign U.S.N.

Examined and found to be correct.

A.V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Esk", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				North	North	3-4			29.935	143	40			b.c.	cumi nimb	4	S.
2				"	"	3-5			29.955	143	39			"	"	7	"
3				"	"	3-5			29.995	143	39			"	"	6	"
4				N. N. W.	"	3-5			30.045	041	34			"	"	3	"
5				North	"	3-6			30.024	63	936			"	cir cumu	8	"
6				N. N. W.	N. N. W.	3-5			30.054	68	935			"	"	9	"
7				"	"	3-4			30.004	63	93	6		b.	nmc	10	"
8				"	"	3-4			30.094	64	136			"	"	10	"
9				N. W. by N.	North	1			30.134	84	339			"	"	10	"
10				N. by W.	N. N. W.	1-2			30.186	046	41			"	"	10	"
11				"	North	2			30.196	046	41			b.c.	cir	10	"
Noon.				"	N. N. E.	1-2			30.186	048	42			"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 560 "

Coal consumed during the preceding 24 hours, tons 1780 lbs.

Coal remaining on hand at Noon, 94 " 1812 "

P. M.																	
1				N. E. by N.	N. E.	2-4			30.256	048	48			b.c.	cir	9	S.
2				N. E.	N. E. by N.	2-4			30.165	850	44			b.	nmc	10	"
3				N. E. by E.	N. E. by E.	2-4			30.176	951	46			"	"	10	"
4				S. E. by E.	S. E. by E.	2-4			30.186	650	46			b.c.	cir	9	"
5				S. E. by S.	S. E.	2			30.216	051	46			b.	nmc	10	"
6				S. E.	"	2			30.236	051	46			"	"	10	"
7				S. S. E.	Calm	0			30.246	051	45			b.m.	"	10	"
8				North	"	0			30.226	851	45			"	"	10	"
9				N. by W.	"	0			30.246	950	45			b.c.	"	10	"
10				"	"	0			30.256	646	43			"	"	10	"
11				"	N. by W.	0-1			30.258	843	40			b.c.	cir cumu	8	"
Mid.				"	"	0-1			30.258	243	40			"	"	8	"

under the command of Commander T. F. Jewett, U. S. Navy,
Wednesday March 16th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A M
Clear and cold. Moderate breeze from North. Moon rose about 12. Barometer rising.

C. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M.
Clear and cool. Fresh breeze from North to N. N. W. At 5.30 sighted an american man-of-war entering the harbor. At 8.00 crossed top gallant and royal yards.

A. T. Ferguson
Ensign U. S. N.

From 8 A. M. to Meridian
Clear, bright and pleasant. Light air clouds latter part. Light airs to breeze from N. N. W. to N. N. E. At 8.10 exchanged numbers with U. S. S. "Omaha" entering the harbor. "Omaha" signalled Int. 2 11, answered 9 of. At 8.25 "Omaha" came to and moored ship. Sent an officer to extend usual courtesies. Found that Capt. T. O. Selfridge had been detached and ordered home leaving Fleet Surg'n Frank Curtis in command. At 8.40 hoisted Guard Flag and Senior Officers pennant. At 8.50 "Omaha" made Int. 4 2 of. Answered 9 of. Received from repair shop on shore 1 pair binoculars. Went to quarters for inspection at 9.30, after which drilled as follows 1st & 2d Divs. Gunnery Instructions, 3d Div Small Arms, Boxing Skirmish Drill. At 9.50 "Omaha" made Int. 6 of. Answered 6 3 of. At 10.10 went to Sail drill. Drilled at shifting topsails and making sail till 11.05 when sent down light yards, unbent sails and crossed top gallant yards. By order of Fleet Surg'n Officer placed C. Campbell C. A. G. in double irons for disobedience of orders. Fired time gun at 12. Expended 110 cartridges Rifle Practice. Received an official visit from Fleet Surg'n Officer U. S. S. "Omaha".

A. C. Poundstone.
Ensign U. S. N.

From Meridian to 4 P. M.
Clear cool and pleasant. Fresh breeze from N. E. by E. At 2.00 started distilling. Exercised Apprentices at signals as per routine. Engaged preparing launch main topgallant sail, starboard torpedo spar and other work about rigging.

C. D. Galloway
Lieut U. S. N.

From 4 to 8 P. M.
Clear and hazy. Light S. E. breeze. At 1st part calm afterwards. Cycled. Sent down topgallant yards, at 7.00 after which went to quarters for muster.

A. C. Poundstone
Ensign U. S. N.

From 8 P. M. to Midnight
Clear and cool. Calms and light airs from N. W.

C. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

A. T. Wadhams. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ships Head													
Midnight			Apparent tide	N.W. by N.	N.W.	1			30.25	53	42	39		b.c.	cir cum	7	9
2				N.N.W.	"	1			30.20	53	42	39		"	"	6	"
3				"	N.N.W.	1			30.20	53	42	39		"	cum nimb	3	"
4				"	"	1			30.20	52	42	39		"	"	2	"
5				N.N.E.	N.N.E.	1			30.29	52	42	40		"	"	2	"
6				N.E.	N.E.	1			30.30	52	41	41		"	"	3	"
7				N.E. by E.	"	1			30.31	52	42	42		"	"	3	"
8				North	North	1			30.34	52	42	42		"	"	2	"
9				N.E. by N.	"	1-2			30.30	58	52	52		"	cir cum	0	"
10				N.E.	"	0-1			30.30	61	52	52		b.c.	"	2	"
11				E.N.E.	Calm	0			30.29	60	54	53		b.c.	"	2	"
Noon.				E. by E.	S.E.	0-1			30.25	60	59	56		b.c.h.	"	1	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by. ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water Distilled during the preceding 24 hours, 2160 "

Water remaining on hand fit for use at Noon, 21400 "

Coal consumed during the preceding 24 hours, 1 tons 1564 lbs.

Coal remaining on hand at Noon, 93 " 2248 "

P. M.																	
1				S.E. by S.	S.S.E.	0-1			30.25	64	49	45		b.c.h.	cir cum	2	9
2				S.E.	East	1			30.21	66	50	47		"	"	4	"
3				E.S.E.	E.S.E.	1			30.18	66	51	47		b.c.	"	2	"
4				S.E. by E.	S.E.	1			30.16	63	51	47		"	"	2	"
5				E.S.E.	E.S.E.	2			30.11	63	52	49		"	"	4	"
6				N.E. by E.	Calm	0			30.04	64	62	50		"	"	4	"
7				N.W.	N.W.	1			30.06	63	54	51		b.c.h.	cum nimb	0	"
8				W.N.W.	"	1			30.02	61	56	52		"	"	0	"
9				"	Calm	0			30.01	60	56	52		o.c.	"	0	"
10				"	"	0			29.97	60	56	53		"	"	0	"
11				N.N.E.		0			29.93	60	56	53		"	"	0	"
Mid.				S. E. by S.	S.S.E.	1-2			29.87	59	56	53		"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday March 15th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A. M.
Fair & pleasant weather. Standing over at close of watch.
Light air from N. W. & N. N. W. Distilling.

From 4 to 8 A. M. Lieut & N. H. Gearing.
Cloudy & cold. Cloudy cum & rimak. Light airs from North to N. E. At 6 sights O. & O. steamer "Oceanic" from San Francisco coming in. Fired two 9 lb, 10 lb charges and displayed American Ensign at the fore for one hour. Sent 2d cutter in charge of an officer & placed her at the disposal of U. S. Minister to Korea, also to make usual boarding visit. Passed Tgit & Royals Yards at 8 o'c. Expended 2. 10 lb charges & 2 percussion primers.

From 8 A. M. to Meridian. Ensign U. S. N. H. C. Tomlinson.
Cloudy & cool. Light airs from North. At 9 20 U. S. Minister to Korea Mr. Swinson left the steamer "Oceania" in launch of "Omaha" for the landing. At 9 30 quarters & divisions exercised: 1st Rifles & skirmish Drill; 2d Machine Guns, 3d Great Guns, Powder Stations, also tested flood cocks & found them in good condition. Marines exercised Skirmish Drill. At 10 00 Summary Court. Lieut A. V. Wadhams U. S. N. Senior Member & for the trial of A. Campbell, Ord. At 11 15 Court adjourned to await action of revising authorities. At 10 15 Fleet Surg Officer left the ship to make official call of U. S. Minister to Korea, at 10 50 returned. At 11 00 mustered at quarters & turned in clean hammocks.

From Meridian to 4 P. M. Lieut U. S. N. C. P. Galloway
Fair & pleasant with light passing shower first two hours. Light airs from S. S. E. & East. At 1 00 held battalion drill. Hoisted out steam cutter. At 2 15 exchanged numbers with U. S. S. "Narin" wearing the flag of Rear Admiral Chandler "Narin" anchored at 2 40. At 3 00 H. I. J. M. S. "Nishin" saluted with 13 guns, American ensign at the fore & was answered by "Narin" with equal number of guns. Fleet Surg Officer of H. I. J. M. S. "Tersin" made an official call on this ship. Fleet Surg Officer, called officially on the Commander-in-Chief. Sold by auction the effects of the late P. Haigh, 1. C. Asst & of the late John Cannon, Ord Asst 2. C, realizing for the estate of the former $8 45 & for the latter $1 25. Received in Pay Dept & issued to crew 138 3/4 lbs each of fresh beef & vegetables. H. I. J. M. S. "Tersin" underway, leaving harbor at 4 00. Distilling.

From 4 to 8 P. M. Lieut U. S. N. H. C. Gearing
Cloudy & mist. Light sprinkle of rain last part. Calm & light airs from E. S. E. & N. W. At sunset Flagship made signal 6 6 8 sent down light yards.

From 8 P. M. to Midnight. Lieut U. S. N. C. P. Galloway
Calm. Light breeze last hour from S. S. E. A light rain, all of watch. Stopped distilling at 10 00 tanks full.

H. C. Gearing.
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.																	
1				S.E. by E.	Calm	0			29.826	0	56	54		b.c.r.	cumuli	0	S.
2				E.S.E.	"	0			29.766	0	56	54		"	"	0	"
3				S.E.	"	0			29.636	0	56	53		"	"	0	"
4				S.E. by S.	"	0			29.636	0	56	53		"	"	0	"
5				S.W.	S. by W.	1			29.706	0	54	49		"	"	0	"
6				S.W.	S.W. by W.	1.5			29.816	0	55	50		b.c.r.	"	0	"
7				South	South	2.6			29.746	1	62	61		"	"	0	N.
8				S.S.W.	S.S.W.	2.7			29.766	3	63	62		"	"	0	"
9				S.W. by S.	S.W.	4			29.746	3	63	60		"	cumuli	4	S.
10						4			29.746	4	62	59		b.c.r.	"	4	"
11				S.S.W.	S.S.W.	4.5			29.756	4	62	57		b.c.r.	"	3	N.
Noon.				"	"	4.6			29.726	4	61	56		b.c.r.	"	3	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water Distilled during the preceding 24 hours, 320 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 1 tons 368 lbs.

Coal remaining on hand at Noon, 91 " 2120 "

P. M.												
1			S.W. by S.	S.W.	4.6	29.736	26	56	b.c.r.	cirrus	2	N.
2			"	"	4.6	29.736	26	0.52	"	"	2	"
3			"	"	4.6	29.756	25	59.50	"	"	2	"
4			"	"	4.6	29.756	25	59.49	"	"	8	"
5			"	"	4.6	29.746	25	56.49	"	"	8	"
6			S.W.	"	3.5	29.736	25	54.49	"	"	2	"
7			"	"	3.5	29.739	25	53.46	"	"	2	"
8			S.W. by W.	S.W. by W.	3	29.735	25	54.48	b.c.	"	8	S.
9			W. by S.	West	3	29.705	25	52.46	"	"	2	"
10			S.W.	S.W.	3	29.735	25	52.46	"	"	2	"
11			S.W. by W.	"	3	29.758	26	0.46	"	"	6	"
Mid.			"	S.W. by W.	3	29.695	25	0.46	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday March 18th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Commences and until 4 A. M.
Overcast and rainy entire watch. Light airs from S. by W. and Calms. Barometer falling rapidly.

W. B. Wagenen
Lieut U. S. N.

From 4 to 8 A. M.
Overcast, rainy and squally. Winds from Calm at 4 o'clock the light breez from South, shifting to South by West with very great squalls. Barometer falling rapidly. At 6:30 Flagship made signal 6/46 Sent down top gallant masts and cointerbraced yards. Sent steam launch into the creek, Ensign in charge. Required for use of crew 111 lbs fresh bread. Ordered steamer "Oceanic" to get underway at 6 and came to inside of light ship.

C. D. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian.
Raining first hour, clearing off second sounding over 3. and again clearing off. Moderate breze with stiff squalls from S. W. and S. S. W. At 9:30 quarters. Two divisions exercised at great guns, Navigators Cutlass and Marines, Skirmish drill. Released from confinement their terms of punishment having expired, C. Dolan, Gun's App 2. C, and J. Fine, Lds.

W. C. Gearing.
Lieut U. S. N.

From Meridian to 4 P. M.
Clearing weather. Moderate to fresh breze in squalls from S. W. Cleaned bilges.

W. B. Wagenen
Lieut U. S. N.

From 4 to 8 P. M.
Gentle to stiff breze in squalls from S. W. at Sunset five quarters.

W. C. Gearing.
Lieut U. S. N.

From 8 P. M. to Midnight
Clear and pleasant. Gentle breze from West to S. W. by W.

W. B. Wagenen
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut (ew) Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
Apparent hide				S.W. by W.	S.W.	1			29.595	65 0	64			b.c.	cir cum	9	S.
2				S.W.	"	1-2			29.615	65 0	64			b.	nme	10	"
3				W. S.W.	"	0-1			29.635	64 9	64			"	"	10	"
4				N.W. by W.	"	1			29.64	65 0	64			"	"	10	"
5				N.N.W	West	0-1			29.69	58 0	64			"	"	10	"
6					N.N.W.	0-1			29.725	64 9	64			b.c.w.	cir cum	9	"
7				N. by W.	"	1			29.785	64 5	65			b.c.	"	9	"
8				North	"	2			29.805	54 4	63			"	"	9	"
9					N. by W.	2			29.826	04 8	64			"	"	9	"
10				N.N.E	N.N.E	2			29.846	15 0	64			b.	nme	10	"
11				E by N	N.E	1			29.856	15 2	64			b.c.	cir	9	"
Noon.				S.E. by E.	S.E. by E.	1			29.866	13 3	64			"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 120 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2380 "

Coal consumed during the preceding 24 hours, 1 tons 138 lbs.

Coal remaining on hand at Noon, 90 " 2120 "

P. M.												
1		S. E. by S.	S. E. by S.	1	29.986	56 5	0	b.	nme	10	S.
2		S. E.	S. E.	1	29.906	56 6	1	"	"	10	"
3		"	"	1	29.916	56 6	1	"	"	10	"
4		S. S. E.	S. S. E.	1	29.916	56 6	1	"	"	10	"
5		S. by W.	S. by W.	1	29.946	56 6	3	"	"	10	"
6		S.W. by W.	Calm	0	29.966	25 6	1	"	"	10	"
7		N.N.W.	"	0	29.986	25 6	1	"	"	10	"
8		N. by W.	N. by W.	1	30.006	56 4	9	"	"	10	"
9		"	"	1	30.016	05 2	4	"	"	10	"
10		"	"	1	30.036	05 2	4	"	"	10	"
11		N. N.W.	N. N.W.	1	30.056	05 2	4	"	"	10	"
Mid.		N. by W.	N. by W.	1	30.066	05 1	4	"	"	10	"

under the command of Commander T. F. Jewett, U. S. Navy,
Saturday March 19th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unto 4 A.M.
Clear and pleasant. Light airs from S.W.

From 4 to 8 A.M. A. T. Scanlon
Ensign U. S. N.
Pleasant weather. Light air increasing to light breeze last hour from N.N.W. at 7:00 workmen from shore on board to work on ship's boilers. at 8:00 crossed topgallant yards and loosed sail to a bowline with flagship.

From 8 A.M. to Meridian N. C. Searing
Lieut U. S. N.
Clear and pleasant. Light breezes from N. by W. and N.N.E. Light airs from N.E. to S.E. At 10. piped to dinner; piped it down at 11:30. Ctes of Pekin went to Sea. By order of Comdg Officer, upon recommendation of Surgeon P. Torpey, P.M., was put upon full ration till further orders. By order of Comdg Officer released A. Campbell C.A.P. Flagship made general signal 10 & answered. At 11:30 routine signal 2. Repeater, No 1. Answered.

From Meridian to 4 P.M. D. H. Mahan
Lieut U. S. N.
Clear and pleasant. Light airs from S.E. to S.S.E. At 12:00 called all hands to muster and read sentence of Summary Court Martial in case of Alex Campbell Sea, for being drunk on, duty the third time in thirty four days; as follows: solitary confinement in double irons on bread and water for thirty days with full rations every fifth day and to do three months extra police duties. Confirmed him in accordance with the above sentence. At 1:00 Flagship made signal 46 & 6. Called all hands and furled sail. Applied water hose to gun cotton primers & found them in good condition. Seamen J. Saunders C. of T. to Seaman. Received in Pay Dept. 138 3/4 lbs Fresh Beef, 138 3/4 lbs Fresh Vegetables and 111 lbs Fresh Bread.

From 4 to 8 A.M. A. T. Scanlon
Ensign U. S. N.
Clear and pleasant. Light airs from S.W. & calm.

From 8 P.M. to Midnight D. H. Mahan
Lieut U. S. N.
Clear and pleasant. Light airs from N. by W. and N.N.W.

A. T. Scanlon
Ensign U. S. N.

Examined and found to be correct.

D. H. Mahan. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
6 Observed tide				N. E.	N. E.	1			30.09	60	50	46		b.	none	10	S.
2				"	"	2			30.10	60	50	46		"	"	10	"
3						2			30.10	60	50	46		"	"	10	"
4				N. W.	N. W.	1			30.10	60	50	46		"	"	10	"
5				W. N. W.		0-1			30.11	59	49	43		"	"	10	"
6				N. W. by W.	Calm	0			30.12	59	49	44		b.c.	cu. cum	8	"
7				"		0			30.13	59	49	41		"	"	8	"
8				N. W. by N.	N. W.	0+			30.14	59	49	41		"	"	2	"
9					N. W. by N.	0-1			30.14	59	49	43		b.c.	"	6	"
10				N. E. by N.	N. E. by N.	0-1			30.14	59	49	46		"	"	2	"
11				E. by N.	Calm	0			30.16	59	49	48		"	"	2	"
Noon.				E. by S.	"	0			30.15	59	49	48		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time ~~2~~ 3, knots teaths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 420 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1960 "

Coal consumed during the preceding 24 hours, 1 tons 184 lbs.

Coal remaining on hand at Noon, 90 " 400 "

P. M.										
1	East	Calm	0	30.11	68	55	51	b.c.	cu. cum	6 S.
2	E. S. E.	S. E. by E.	0-1	30.09	58	56	51	"	"	5 "
3	S. E. by S.	Sweet	1	30.06	56	56	51	"	"	4 "
4	S. S. E.	"	1	30.06	59	55	51	"	"	4 "
5	S. by W.	S. by W.	2	30.05	59	54	52	"	"	3 "
6	S. W.	S. W.	1	30.08	59	54	52	"	"	4 "
7	S. W. by W.	"	1	30.10	58	55	54	"	"	2 "
8	S. W.	"	1	30.10	58	54	53	"	"	2 "
9	S. S. W.	S. S. W.	0-1	30.10	58	56	53	"	"	6 "
10	"	"	0-1	30.10	58	56	52	"	"	4 "
11			1-2	30.10	58	56	52	"	"	4 "
Mid.	S. W.	S. W.	1	30.08	58	56	52	"	"	6 "

under the command of Commander T. F. Jewett, U. S. Navy,
Sunday March 20th, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Mets A. M.
Clear and cool, with light airs to brisk from N. E. to N. W.

From 4 to 8 A. M. N. C. Bowerstock
Partly clear. Calm and light airs from N. W. Ensign U. S. N.

From 8 A. M. to Meridian L. B. Harris
Clear and pleasant. Calms and light airs from N. W. to N. E. at 9.30 Lieut U. S. N.
Cond'g Officer inspected ship and crew at quarters.

From Meridian to 4 P. M. A. N. Heaton
Ensign U. S. N.
H. A. Simmons Esq Cloudy and pleasant. Cond. cir-cum. Calms and light variable airs
U. S. Minister to Korea called on board. Sent visiting parties to "Omaha"
and "Marion". Asst. Surg. Harris was to-day detached from this vessel and
ordered to U. S. S. "Omaha". Visiting parties were on board from "Marion" and "Omaha"

From 4 to 8 P. M. N. C. Bowerstone.
Ensign U. S. N.
Weather cloudy. Light airs from S. W. and S. by W.

From 8 P. M. to Midnight A. N. Heaton
Ensign U. S. N.
Partly clear with cir. cum. clouds. Bright starlight. Gol. Light
airs to breeze from S. S. W. and S. W.

N. C. Bowerstone.
Ensign U. S. N.

Examined and found to be correct.

F. F. Wadhams, Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1 Apparent hide				South	South	1			30.035	95	55	52		bc	cir cum	6	S
2				S E	S E by S	2			30.035	95	46	52		"	"	4	"
3				S W	S W	1			30.025	85	35	52		"	"	5	"
4				Calm	Calm	0			30.015	86	36	51		"	"	3	"
5				N W	N W	1			30.035	85	35	51		"	"	4	"
6				"	"	1			30.035	85	04	48		"	"	6	"
7				"	"	1			30.035	84	94	48		"	"	6	"
8				"	"	1			30.045	84	94	48		"	"	5	"
9				"	"	1			30.045	94	94	48		"	"	6	"
10				N E	N E	1			30.025	95	05	49		"	"	6	"
11				E	E	2			30.015	96	16	49		"	"	6	"
Noon.				East	East	2			30.005	95	25	49		"	.	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 420 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1540 "

Coal consumed during the preceding 24 hours, 1 tons 184 lbs.

Coal remaining on hand at Noon, 90 " 432 "

P. M.												
1		S E	S E	1	29.986	05	50	bc	cir cum	2	S
2		"	"	1	29.976	05	51	"	"	2	"
3		"	"	2	29.966	15	62	"	"	8	"
4		"	"	2	29.956	15	63	"	"	8	"
5		W by S	S W	2	29.946	25	64	"	"	8	"
6		"	"	2	29.936	25	54	"	"	9	"
7		East	"	1	29.916	15	53	"	"	9	"
8		W by N	Calm	0	29.916	15	54	"	"	9	"
9		N E by N	N E	1	29.946	15	54	"	"	9	"
10		East	"	1	29.946	15	54	"	"	9	"
11		E S E	E S E	1	29.946	15	54	"	"	9	"
Mid.		E by S	"	1	29.936	15	54	"	"	9	"

under the command of Commander T. F. Jewett, U. S. Navy,

Monday March 21st, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and cutie + A. M.
Partly cloudy & pleasant weather. Light airs to light breze from South, S.E. by S. & S.W. Saluted last hour of watch.

W. J. Toomis
Ensign U. S. N.

From 4 to 8 A. M.
Clear. Light breze from N. W.

A. T. Leighton
Ensign U. S. N.

From 8 A. M. to Midnight
Clear. Light airs to light breezes from N.E. & E. At 9.50 Battalion left the ship to join the Naval Brigade, at the creek landing.

Geo. A. Bicknell
Asst. Surgeon U. S. N.

From Meridian to 4 P. M.
Light S.E. breze & clear weather.

Geo. A. Bicknell
Asst. Surgeon U. S. N.

From 4 to 8 P. M.
Clear & pleasant. Light breezes from S.W. first three hours of the last hour. At 4 Battalion returned. Flagship signaled "Routine for day suspended." Received in Pay Dept. for issue to crew 138 1/2 lbs each of fresh beef & vegetables & 111 lbs bread. By order of Commdg Officer Asst. P. J. O'Brien Civ'r, under sentry's charge for being under the influence of liquor. By order of Commdg Officer placed fore & aft one of whale boats boat hooks. By order of Commdg Officer placed forward on Sea, under sentry's charge for being drunk on board Ship.

W. C. Pomeroy
Ensign U. S. N.

From 8 P. M. to Midnight
Clear & pleasant. Light airs from N.E. first half and E.S.E. last half of watch.

W. J. Toomis
Ensign U. S. N.

Examined and found to be correct.

A. T. Mackenzie. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Osaka", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1 Apparent time				E by E	E by E	0-1			29.94	62	55	53		b.c	cir cum	8	S.
2				East	"	0-1			29.94	62	55	53		"	"	8	
3				N. W. by N	N. W. by N	0-1			29.92	59	53	51		"	"	3	"
4				N. N. W.	N. N. W.	0-1			29.92	57	52	51		"	"	5	"
5						1			29.91	67	55	50		"	"	6	"
6				N. W.	N. W.	1			29.92	65	51	49		"	"	5	"
7						1			29.94	65	51	49		"	"	3	"
8				N. N. W.	North	1			29.95	65	52	50		"	"	3	"
9				North	"	1			29.96	59	54	52		"	"	4	"
10					"	1			29.96	59	53	52		"	"	6	"
11				N. N. W.		1			29.95	59	55	52		"	"	4	"
Noon.				N. E	N. E	1			29.95	60	56	52		"	"	8	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1520 "

Coal consumed during the preceding 24 hours, 1 tons 925 lbs.

Coal remaining on hand at Noon, 88 " 1560 "

P. M.																	
1				E by E	East	1			29.90	60	56	53		b.c	cir cum	1	S.
2				S E by S	"	1			29.88	60	54	52		"	"	3	"
3				E S E.	"	1			29.86	60	54	53		"	"	4	"
4				E. N. E.	N "	1			29.86	59	54	53		o.c	cumulus	0	"
5				North	North	2			29.89	58	56	52		o.cirr	"	0	"
6				"	"	3			29.92	56	51	49		"	"	0	"
7				N. by W.	"	3			29.96	54	51	49		"	"	0	"
8				North	"	3			30.00	54	51	48		o.cirr	"	0	"
9				N. E	N " E	3			30.03	54	49	49		o.cir.	"	0	"
10					"	3-4			30.05	54	48	47		o.c.	"	0	"
11				East	East	3-4			30.04	54	48	47		"	"	0	"
Mid.				E by N	"	3-4			30.04	54	48	46		"	"	0	"

under the command of Commander T. T. Jewell, U. S. Navy,

Tuesday March 22d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A. M.

Clear and cool first part. cloudy and rain latter part. Light airs from East to N. N. W.

C. D. Galloway Lieut U. S. N.

From 4 to 8 A. M.

Partly clear with cir. cumu clouds. Light airs from to to N. W. Rigged out sailing launch.

H. C. Poundstone Ensign U. S. N.

From 8 A. M. to Meridian

Partly clear and pleasant. Cir. cumu clouds. Light airs from North. At 9h. mustered and inspected at quarters. Drilled 1st. Div. at Infantry, 2d. Div. Single stick, 3d. Div. Rifles. At 10h. Armed and Equipped Boats and drilled at Naval Tactics. By order of Judge Officer released N. J. O'Brien Seaman and John Williams Sea. from seatrys charge. Received on Pay Sept. 2400 lbs of Hard Bread and 12000 yen.

F. J. Soomis Ensign U. S. N.

From Meridian to 4 P. M.

Cloudy, chilly and rainy. Light airs from East. Engaged on ships work. Cadet Engr. F. Arnold was detached from this vessel and ordered to the U. S. S. "Marion" he reported in obedience thereto. Board of Survey Lieut. Omar Henry Senior Member met on board for Survey of articles in Equipt. Dept. 5 Air Ports, 6 Gas Gutters.

C. D. Galloway Lieut U. S. N.

From 4 to 8 P. M.

Overcast and rainy with occasional thunder. Light increasing to, gentle breezes from North. At 7 to moved to Coffins in port chain to clear Mid. steamer. At sunset sent down top gallant yards.

F. J. Soomis Ensign U. S. N.

From 8 P. M. to Midnight

Overcast cold and rainy. Moderate breez from N. E. to East. Lightning first part, at intervals.

C. D. Galloway Lieut U. S. N.

Examined and found to be correct.

F. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
P. M.																	
Apparent time				E. N. E'	N. E.	3-4			30.065	44	43			o c	cum nim.	0	S.
2				N. E' by E'	"	3			30.055	44	43			"	"	0	"
3				N. E.	"	3			30.065	43	42			o ch.	"	0	"
4				"	"	3			30.105	44	43			"	"	0	"
5				"	"	2			30.116	34	43			o c	"	0	"
6				N. E' by N.	"	3			30.125	36	43			o c d.	"	0	"
7				"	"	2-3			30.156	14	34	2		o c d.	"	0	"
8				"	"	2-3			30.165	04	24	0		o c d.	"	0	"
9				N. E.	"	3			30.185	04	14	0		"	"	0	"
10				N. E. by N.	North	3			30.195	04	14	0		"	"	0	"
11				N. E.	N. E.	2			30.184	04	03	9		"	"	0	"
Noon.				N. E.	"	2			30.184	04	14	0		o c	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1160 "

Coal consumed during the preceding 24 hours, tons 15 0/2 lbs.

Coal remaining on hand at Noon, 87 " 1996 "

P. M.										
1	N. E by E.	N. E. by E.	3	30.195	04	34	1	o c cum nim.	0	S.
2	N. N. E.	"	3	30.196	04	34	2	" "	0	"
3	E. N. E.	"	3	30.184	04	34	2	" "	0	"
4	N. E by E.	"	3	30.184	04	34	2	" "	0	"
5	E by N.	"	3	30.114	04	34	5	" "	0	"
6	"	N. E.	2-3	30.114	04	43	3	" "	0	"
7	E. N. E.	E. N. E.	2-3	30.135	04	43	3	" "	0	"
8	N. E by N.	N. E.	2-3	30.145	14	46	6	" "	0	"
9	North	"	2	30.155	05	04	8	" "	0	"
10	"	"	2-3	30.154	05	14	9	" "	0	"
11	N. N. W.	"	3	30.154	04	94	6	" "	0	"
Mid.	"	"	3	30.184	04	14	5	" "	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday March 23d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Latter A. M.

Overcast and cloudy with light passing showers last two hours. Moderate decreasing to gentle breeze from N. E. Barometer rising.

F. J. Coomes,
Ensign U. S. N.

From 4 to 8 A. M.

Overcast. Light to gentle breeze from N. E. at 7:52 Flagship "Marion" signalled 6144. Answered. At 8. crossed topgallant-yards.

B. T. Waring
Lieut U. S. N.

From 8 A. M. to Meridian.

Overcast and raining. Light snow at intervals. Gentle breeze from N.W. and N. E. At 9.35 went to quarters exercised 1st, 2d & 3d divisions Great Guns. Also div. repairing forecast. At 11.0 U. S. Minister to Korea went on board U. S. S. "Omaha" on his arrival on board she hoisted Ensign at fore & fired a salute of 15 guns. She then got underway and stood out. Transferred H. Evelyn C"rs to Naval Hospital. Hove in port chain to service & secured. Placed H. Gostaine, 2. C. F. under sentry charge until sober by order of Watch Officer.

C. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Overcast. Gentle breeze from N. E. J. F. Link, 1. C. apl, was returned on board from Circular Jail.

B. T. Waring
Lieut U. S. N.

From 4 to 8 P. M.

Overcast, rain and cold. Light breeze from N. E. Engaged preparing for a minstrel entertainment. Released H. Gaine 2. C. F. from sentry's charge by order of Watch Officer. Placed J. Schiffers, Sea apl 2. C. under charge of sentry for being drunk by order of Watch Officer.

C. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight

Cloudy & overcast. Gentle to moderate breeze from N. E.

B. T. Waring
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ship's Head													
M.																	
Apparent noon				North	North	3			30.12	50	43	42		o.c.	cumuli	0	S
2				"	"	3			30.12	50	43	42		"	"	0	"
3				"	"	3			30.15	50	43	42		"	"	0	"
4				"		3			30.14	50	43	42		o.c.	"	0	"
5				N.E. by N.	N.E.	2			30.14	49	42	41		b.c.	cir.cum	4	"
6				"		2			30.14	49	42	41		"	"	5	"
7				"	N.N.E.	1-2			30.15	48	42	41		"	"	6	"
8				"	"	1-2			30.20	50	42	42		"	"	6	"
9				North	North	1			30.22	50	42	40		"	"	4	"
10				N. by W.	"	1			30.25	60	43	40		"	"	2	"
11				N.E. by E.	N.E. by E.	1			30.25	60	45	41		"	"	2	"
Noon.				East	East	1			30.22	54	46	44		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 800 "

Coal consumed during the preceding 24 hours, tons 1580 lbs.

Coal remaining on hand at Noon, 87 " 416 "

P. M.											
1		E by S	E.N.E.	2	30.20	56	46	44	b.c.	cir.cum	4	S
2		East	"	2	30.19	60	44	42	"	"	6	"
3		"	"	3	30.18	58	44	42	"	"	5	"
4			East	3	30.15	56	46	44	"	"	6	"
5		E by S	"	3	30.15	55	44	43	"	"	5	"
6		East	"	3	30.13	56	44	43	"	cum.nim.	2	"
7		"	"	3	30.14	53	48	46	o.c.	"	0	"
8		E.S.E.	"	2	30.15	54	48	46	b.c.	"	3	"
9		S.E.	S.E.	2	30.17	53	48	46	o.c.	"	0	"
10		S.S.E.	S.S.E.	1-2	30.17	53	49	44	"	"	0	"
11		South		0-1	30.15	54	49	44	b.c.	cir.cum	4	"
Mid.		S.W. by S.	S.W.	0-1	30.15	55	49	44	"	cum.	1	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday March 24th, 185[illegible].

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and latter part A.M.
Cloudy with light airs & gentle breeze from East.

A. F. Doherty
Ensign U. S. N.

From 4 to 8 A.M.
Clearing, cool weather. Light breeze from N. E. at 5 to. Flagship "Marion" signaled (army code) Hoist Admiral's flag. As soon as she hauled flag down, hoisted flag at Augusta. At 5 "Marion", got underway & stood out under steam alone. Released J. Schipperus, Seaman, from sentry's charge, he being sober.

C. L. Galloway
Asst. Surg. U. S. N.

From 8 A.M. to Meridian.
Clear & pleasant. Light breeze from North & N. E. by E. Mustered at quarters & exercised divisions, as follows. 1st & Boarders Rifles, 1st & 2d Cutlass, 2d Machine Guns.

B. F. Waring
Lieut U. S. N.

From Meridian to 4 P.M.
Partially cloudy. Light to gentle breeze from East & N. E. at 100 hoisted sail to a bowline. At 2 ou sailed sail. At 12 drilled infantry companies of battalion. At 2 ou exchanged numbers with "Marion". At 2 "Marion" made signal Int 121. Answered 9 gun at 2 "Marion" moored ship. "Marion" hoisted "Essex" hauled down Rear Admiral's flag. At 2 started distiller.

A. F. Doherty
Ensign U. S. N.

From 4 to 8 P.M.
Clear & pleasant. Light breeze and airs from Calm S. E. & S. W. Mustered at quarters. At sunset sent down light yards. Watching.

B. F. Waring
Lieut U. S. N.

From 8 P.M. to Midnight
Generally cloudy. Calms & light Sly airs. Watching

Ensign U. S. N.
A. F. Doherty

Examined and found to be correct.

A. T. Graham Lieut & Navigator.

~~LOG~~ of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N N W.	N N W.	1			30.136	54	84	74		b c	cir cum nimb	4	S
2				N by W.	"	1			30.105	54	84	74		"	"	9	"
3				N N W.	"	2			30.095	44	64	54		"	"	3	"
4				N by W.	"	2			30.053	44	44	43		"	"	9	"
5				N N W.	"	2			30.095	34	44	42		b c w	"	4	"
6				W N W.	"	2			30.105	44	34	32		"	"	5	"
7				N W.	N W.	2			30.156	43	42			"	cir cum	7	"
8				"	"	1			30.115	54	44	42		"	"	9	"
9				S 3/4 E	Calm	0			30.105	24	14	45		b c	"	9	"
10				S S E	S E	1			30.159	49	47			"	"	9	"
11				S W.	Calm	0			30.106	52	49			"	"	9	"
Noon.				"	South	1			30.086	25	45	0		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water Distilled during the preceding 24 hours, 650 "

Water remaining on hand fit for use at Noon, 1150 "

Coal consumed during the preceding 24 hours, 5 tons 608 lbs.

Coal remaining on hand at Noon, 81 " 2048 "

P. M.									
1	S E.	S E by S	0-1	30.146	35	52	b c	cir cum	9 S.
2		S S W.	2	30.106	35	50	"	"	9 "
3	E S E		3	30.096	25	01	"	"	8 "
4	N E 1/2 N	S W.	3	30.086	25	52	"	"	9 "
5	N E 1/2 N	W. S W.	3	30.086	85	54	"	"	9 "
6	N W.	"	3	30.104	25	54	"	"	8 "
7	N W. 3/8 W	"	3	30.104	25	54	"	"	9 "
8	W N W.	S W.	2	30.117	05	52	"	"	9 "
9	W by S	"	2	30.116	85	51	"	"	9 "
10	S W by W.	"	2	30.116	95	51	"	"	9 "
11	"	"	0-1	30.116	95	50	"	"	9 "
Mid.		S S W.	1	30.116	95	49	"	"	9 "

under the command of Commander T. F. Jewell, U. S. Navy,
Friday March 25th, 18 87.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clear, and, cool. Light breeze from N. N. W. Stopped, distilling at 3 o'c.

Lieut P.T. Wagner
Lieut U. S. N.

From 4 to 8 A. M.
Partly clear with cir-cumm & mimk clouds, wet: heavy dew. Light airs to breeze from N. W & N. N. W. Called hands at 4 o'c. Turned over engines at 4 o'c. Engines ready at 4 1/2. Transported sheet anchor to its berth. at 5 o'c commenced to unmoor ship. at 6 o'c hauled in steam launch. Got port anchor & hawse in at 6 fms on starboard chain between 6 & 7 o'c Got ship ready for sea. at 7 1/2 Signalled to Flagship "Marion" Int. Practice suspended for the day. Answered "Loose sail suspended". Crew T. J. yards with Flagship. Draft fwd 14' 2", aft 14' 6".

A. T. Pearce Jr
Ensign U. S. N.

From 8 A. M. to Meridian
Clear & pleasant. Light haze around the harbor during first half of watch. at 8 1/2 got underway and steamed out of the harbor. Steamed 10 miles S.W. of Light when stopped for target practice. Making preparations for target & torpedo practice during watch.

A. T. Leighton
Ensign U. S. N.

From Meridian to 4 P.M.
Clear, bright & pleasant with light airs from S.E. by S. first hour. Light to gentle breeze from S. S.W & S.W. afterwards. Clouds cir-cumm at 1 2d Shower ship to me hoisted & went to General Quarters for target & torpedo practice. Got over target. Had first Gun, Small arm & Torpedo Practice. Secured at 1:55 & picked up target. Expended in Ord Dept for 60 Pdr, 3-6 lb charges, 3 Parrott shell, 3 S. & C. Primers; for 9"-12, 10 lb charges, 12-5" Shell, 12 Percussion Primers; for 8" 6-35 lb charges, 6 Butler shell, 6 Dezell Friction Primers, for 3" 5-12 oz charges, 5-3" Shell, 5 Percr Fuzes, 5 S. & C. Primers; from 45 Cal Carbridges; 15-1" Drydisces 1 Primer Case, 6 each cylinder Gun Cotton 38 lbs, 1 detonator, 1 Rubber Gland Boxed, 1 Tripod, 1 cylinder, 1 Secondary Spar Buoy, Lost overboard and suspended one 9" shot & Head.

A. T. Pearce Jr
Ensign U. S. N.

From 4 to 8 P.M.
Finished Small arm target practice during first half hour of watch, then steamed back to Yokohama. at 4 2d set foresail & fore topsail & at 6 2d hauled them in and crossed top gallant yards. at 7/30 exchanged numbers with the "Marion" Made signal 12-11 plain, answered 90 4. at 7.48 moored ship with 45 fms on each chain. Expended in Ord Dept 18 9 inch & 9 Red Varys & Signals & 2 Rockets. Capt 1/4 left fwd

A. T. Leighton
Ensign U. S. N.

From 8 P.M. to Midnight
Generally clear, cold. Cir. cumm clouds. Bright starlight. Light breeze from S.W. first part, falling to light airs from S.W & S.S.W. Hauled fires out of 4 boilers 2 & 4. Uncoupled propeller.

A. T. Pearce Jr
Ensign U. S. N.

Examined and found to be correct.

A. T. Wagner. Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head					a								
A. M.																	
1	apparent time			S.W. by W.	Calm	0			30.10	69	51	49		b.	nmbs	0	S
2				"	"	0			30.09	69	51	49		"	"	10	"
3				South	"	0			30.08	68	50	48		" m	"	10	"
4				S.W. by W.	"	0			30.06	63	49	49		"	"	10	"
5				N.W.	West	0-1			30.05	42	44	45		b	"	10	"
6				"	N.W.	1			30.05	41	44	45		b.c.	cir.cumm	9	"
7				"	"	1			30.05	69	46	45		"	"	8	"
8				"	"	1			30.05	68	49	45		"	"	8	"
9				"	"	1			30.05	68	49	49		b.cum.	"	7	"
10				"	"	1			30.02	68	51	48		b.cu.	nmbs	10	"
11				N.E. by E.	S.E.	1			29.99	68	53	51		"	"	10	"
Noon.				E.S.E.	E.S.E.	1			29.98	68	53	51		"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 20 "

Water remaining on hand fit for use at Noon, 800 "

Coal consumed during the preceding 24 hours, 3 tons 304 lbs.

Coal remaining on hand at Noon, 98 " 1744 "

P. M.										
1	S.E. by E.	S.E.	1	29.83	68	55	51	b.cf.	cir.cumm	9	S
2	"	S.S.E.	1	29.80	66	56	53	"	"	9	"
3	S.S.E.	"	1	29.78	66	58	54	"	"	9	"
4	S.E. by E.	E.S.E.	1	29.78	64	58	55	"	"	9	"
5	S.E. by S.	South	2	29.78	64	59	55	"	"	9	"
6	"	"	1	29.80	64	59	55	"	"	9	"
7	S.E.	"	1	29.80	63	58	55	"	"	8	"
8	N. by W.	S.W.	0-1	29.80	63	56	56	b.cu.	nmbs	10	"
9	N.W.	N.W.	0-1	29.80	62	56	54	"	"	10	"
10	"	"	0-1	29.86	62	56	54	"	"	10	"
11	"	"	1	29.82	62	54	52	"	"	10	"
Mid.	"	"	1	29.80	62	54	52	b	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday March 26th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clear and calm. Two banked fires in boilers No 2 and 4.

From 4 to 8 A. M. W. B. Hoggatt
Weather pleasant. Hazy around horizon. Calm and light airs from N W and West. Ensign U. S. N.

From 8 A. M. to Meridian C. A. V. Lee
Clear, bright and hazy. Cir-cum clouds 1st hour. Light & variable airs. Cleaning ship. at 11 a.m., commenced distilling. Ensign U. S. N.

From Meridian to 4 P. M. W. Thorndstone
Clear and hazy. Light airs from S W to E S E. Sent liberty party of apprentices ashore. Received in Pay Dept 138 lbs fresh beef, 138 1/4 lbs fresh vegetables and 111 lbs fresh bread. Distilling. Ensign U. S. N.

From 4 to 8 P. M. W. B. Hoggatt
Generally clear. Hazy. Light cir-cum clouds the last hour. Light airs to brisk from South shifting to S. W. last hour. Sent to Evening quarters at 6 p.m. absent without leave Wm Branigan O Seaman, T. Sheldon, C. F. C. and A. C. Hansen C. A. F. J. Lundgang Seaman C. came on board drunk and was put under Sentry's charge till sober. Distilling. Ensign U. S. N.

From 8 P. M. to Midnight W. B. Thorndstone.
Clear and pleasant, hazy about horizon. Light airs from S W and N. W. Distilling. Wm Branigan O Seaman, returned from liberty 3 1/4 hours overtime drunk and was placed under Sentry's charge by order of Cond'g Officer. Ensign U. S. N.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams Lieut. and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Thirty Head													
1	Apparent time			N. by W.	N. N. W.	1			29.806	15250				b.w.	nme	10	S
2				N. by E	"	1			29.816	15250				b.w.	cr.cum	9	"
3				N. by W.	"	1			29.826	15149				"	"	9	"
4				N. N. W.	"	1			29.806	15048				"	"	9	"
5				N W.	N. W.	1			29.806	04949				"	"	9	"
6				N. W. by W.	"	1			29.806	04745				"	"	9	"
7				"	N W. by W.	0-1			29.805	84745				"	"	9	"
8				"	"	0-1			29.815	74845				b.c.	"	8	"
9				"	Calm	0			29.825	85044				b.z.	nme	10	"
10				"	"	0			29.806	05350				h.	"	10	"
11				S by E.	S by E.	1			29.796	05350				"	"	10	"
Noon.				S W. by S	S W. by S.	2			29.786	05953				"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 1160 "

Water remaining on hand fit for use at Noon, 1600 "

Coal consumed during the preceding 24 hours, 1 tons 2024 lbs.

Coal remaining on hand at Noon, 76 " 1960 "

P. M.											
1	S W. by W.	S W.	4	29.666	16253	b.c.	cu.cum	9	S
2	S W. by S	"	4	29.636	26353	"	"	8	"
3	S S W.	S S W.	4	29.616	36354	"	"	8	"
4	S S W.	S S W.	4	29.596	36354	"	"	8	"
5	S W. by W.	S W. by W.	4	29.616	46255	m.cy.	"	8	"
6	W. S W.	W. S W.	4	29.626	36154	"	"	8	"
7	"	"	4	29.626	26053	"	"	8	"
8	"	"	4	29.626	15952	"	"	6	"
9	"	"	3	29.666	15953	b.c	cu.cum	8	"
10	W by S	W. by S	2	29.676	05853	"	cu.cum	5	"
11	"	"	2	29.696	05853	h	nme	10	"
Mid.	W. S W.	"	3	29.606	05452	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday March 2nd, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.

Clear and pleasant. Light airs from N. N. W. Distilling.

H. Loomis
Ensign U. S. N.

From 4 to 8 A. M.

Partly clear with cirrus clouds. Hazy 3d hour, foggy last hour. Light airs from N. W. and N. W. by W. Released from sentry's charge & Lounging Sea Apple &c., T. Sheldon, F. C., came on board 4 hours overtime. Distilling.

W. C. Remington
Ensign U. S. N.

From 8 A. M. to Meridian.

Clear and pleasant. Calms, light airs to light breeze from S. by E. to S. W. by S. Released Wm. Brannigan, C. Ker. from sentry's charge by order of the Executive Officer. At 9.55 went to his quarters for inspection. A. C. Hansen, C. of G. absent without leave. Sent liberty party on shore. Distilling.

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P. M.

Clear and pleasant. Moderate breeze from S. W. By order of Executive Officer placed L. Tokich, Stg. Steer, under sentry's charge for being drunk. Sent liberty party ashore. The American barques "La Ponza" & "Jno. F. Parris" came in and anchored. Distilling

H. Loomis
Ensign U. S. N.

From 4 to 8 P. M.

Clear and pleasant. Moderate breeze in squalls from S. S. W. to W. S. W. Seven Tumottes & Gilford a prisoner for trial by G. C. M. with the charges & specifications against him. By order of Executive Officer released Alexander Campbell, Ord., from confinement. Sent a church party ashore at 6 P. M., remainder from short heel service on board. Distilling.

W. B. Hoggatt
Ensign U. S. N.

From 8 P. M. to Midnight

Clear and cool. Bright starlight. Light breeze from W. S. W. first hour & light breeze from W. by S. remainder of watch. Stopped distilling at 10 h. Church party returned on board.

H. Loomis
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams Lieut. & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
~~Midnight~~ Apparent noon				S.W.	S.W.	3			29.58	60	54	50		h.	nme	10	S.
2				S.W. by S.	"	4			29.56	60	58	60		bc	cr cum	8	"
3				S.S.W.	"	4			29.55	60	60	60		"	"	8	"
4				S. by W.	S.S.W.	3			29.56	62	56	53		"	"	8	"
5				S.S.W.	"	3			29.56	62	58	56		h.	nme	10	"
6				S.W.	S.W.	1			29.56	62	60	58	52	bc	cr cum	8	"
7				S.W. by W.	S.W. by W.	1			29.56	62	60	58	52	"	"	7	"
8				North	N.N.E.	1			29.56	62	60	58	52	"	"	7	"
9				"	North	2			29.58	62	60	58	53	"	"	6	"
10				"	"	2			29.60	63	60	58	53	"	"	8	"
11				"	"	2			29.60	63	59	56	53	"	"	9	"
Noon.				N. by E.	"	2			29.60	64	60	58	53	h.	nme	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 360 "

Water remaining on hand fit for use at Noon, 2610 "

Coal consumed during the preceding 24 hours, 1 tons 644 lbs.

Coal remaining on hand at Noon, 75 " 1316 "

P. M.																	
1				N. E.	E.N.E.	2			29.59	64	61	54		bc	cr cum	8	S.
2				N.E. by N.	North	3			29.59	64	60	60		"	"	7	"
3				"	"	3-4			29.60	63	59	50		"	"	7	"
4				N. by E.	N. by E.	3-5			29.61	61	54	48		bc. gr.	"	7	M.
5				"	"	3-4			29.61	60	54	49		"	"	7	"
6				N. N. E.	N. N. E.	2-4			29.61	60	54	46		"	"	8	"
7				"	"	2-4			29.60	59	52	46		"	"	8	"
8				"	"	2-3			29.58	59	50	46		"	"	8	"
9				North	North	3			29.57	58	48	46		b. gr.	nme	10	S.
10				N. by W.	"	3			29.56	58	44	43		"	"	10	"
11				"	"	3-4			29.56	58	45	42		"	"	10	"
Mid.				"	"	3-4			29.55	58	45	41		"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday March 28th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and ends at 4 A. M.

Clear, mild and pleasant. Moderate breeze from S. W.

E. D. Galloway
Lieut & I. M.

From 4 to 8 A. M.

Clear, mild and pleasant. Light variable airs from S.W. by W. By order of the Comdg Officer released H. Tolrich, Stg Stwd, from sentry charge. At 7, commenced distilling. Crossed royal yards at, colors.

E. W. B. Hogg
Ensign U. S. N.

From 8 A. M to Meridian.

Clear, warm and pleasant. Light breeze from North. At 9.30 mustered & inspected at quarters and immediately, after called all hands clear ship for action. Spilled crew at gunnal quarters. Tested electrical apparatus & permanent & leading wires. Inspected dry gun-cotton. By order of Comdg Officer placed Wm. Thompson, Sea, & H. Fabel, Lt. M, under sentry charge for being drunk. At 11: the Japanese man-of-war "Kongo" came in and anchored. Extended the usual civilities. Inspected Board of Survey, condemned and by direction of Comdg Officer threw overboard 6 lbs beef bought at open purchase at Hong Kong. Received from U. S. S. Marion with all necessary transfer papers Albert Hansen, Lds. Tested magazine and shell-room flood-cocks.

F. J. Loomis
Ensign U. S. N.

From Meridian to 4 P. M.

Fair and cool. Gentle breeze from E. N. E. backing to North & freshening. Placed P. Hansen, Pt in double irons for two (2) days for insolence to Mate at Arms, by order of Comdg Officer. Transferred Victor Lapoint, C. M. to U. S. S. Marion by direction of Commander-in-Chief. Engaged blacking lower rigging, sounding &c. Received in Pay Supt. 388 4/16 lbs beef, 138 3/16 lbs vegetables & 111 lbs bread. At 2 p.m. Board of Survey, Chief Engineer J. W. Stivers, Senior Member, met on board Marion to hold survey on machinery. Quarterly Board for examination of Apprentices Lieutenant E. D. Galloway, Senior Member, met at 3 P.M. At 3 p.m. H. B. M. Minister Plenipotentiary, Sir Francis Plumbott, paid an official visit to the ship; extended usual honors.

E. D. Galloway
Lieut U. S. N.

From 4 to 8 P. M.

Clear and cool. Moderate to light breeze blowing in squalls from N. N. E. At 5 p.m. mustered at quarters, found the following men absent without leave. J. Shields, Ship's Cook, Henry Hudson Sea Jr, Frank Wallace, C. of T., Alex Donaldson, C. Lr, and Andrew Jain, Mchst. At sunset sent down royal yards. Stopped distilling at 5 p.m.

F. J. Loomis
Ensign U. S. N.

From 8 P. M. to Midnight

Clear and cool. Gentle to moderate breeze from North. Moonlight first part.

E. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

E. W. Wareham, Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ship's Head													
12	Apparent	Side		N by W.	North	3-4			29.765	52	45	41		h.	nme	10	S.
2				North	"	3-4			29.76	52	44	40		"	"	10	"
3				N by W.	N by W.	3			29.76	52	44	40		"	"	10	"
4				"	"	3			29.76	51	44	40		"	"	10	"
5				North	North	3			29.77	51	42	40		b.c.	cir	9	"
6				"	"	2			29.79	50	43	39		"	cirrum	2	"
7				"	"	3			29.79	50	41	37		"	"	2	"
8				"	"	2-3			29.80	48	41	36		b.c.g.	"	2	"
9				"	"	2-3			29.85	55	43	39		"	"	6	"
10				"	"	3			29.85	58	43	39		"	"	5	"
11				"	"	3			29.85	59	48	43		b.c.	"	5	"
Noon.				"	"	3			29.85	63	49	43		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 410 "

Water remaining on hand fit for use at Noon, 2650 "

Coal consumed during the preceding 24 hours, 1 tons 92 lbs.

Coal remaining on hand at Noon, 74 " 1224 "

P. M.											
1		NNE	NE by N	1	29.82	65	44	b.c.	cirrus	4	S.
2		"	"	1-2	29.80	61	44	"	"	6	"
3		"	NNE	3-4	29.79	60	44	"	"	6	"
4		"	"	3-5	29.79	60	43	"	"	4	"
5		North	"	3-6	29.79	56	42	"	"	4	"
6		NNE	"	3-6	29.79	56	41	"	"	6	"
7		"	"	3-4	29.79	53	40	"	"	5	"
8		"	"	3-4	29.82	52	40	"	"	5	"
9		North	North	3-4	29.83	52	40	"	"	4	"
10		"	"	3-4	29.81	52	38	"	"	5	"
11		"	"	4	29.80	52	38	"	"	5	"
Mid.		N by W.	"	4	29.80	50	37	"	"	8	"

under the command of Commander T. F. Jewett, U. S. Navy,

Tuesday March 29th, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.

Clear and cool. Gentle to moderate breezes from North. Gentle breezes from N. by W.

B. H. Wavering
Lieut & F M

From 4 to 8 A. M.

Clear to fair weather. Cool. Light to gentle breeze from North, squally last hour.

F. J. Loomis
Assign & F M

From 8 A. M. to Meridian.

Clear and cool. Gentle breeze from North. At 9m quarters, general drill. 1st Great Gun, 2d single sticks, Powder single sticks, 3d pikes. Absent without leave H. Linden, Sea 2d, J. Smith, Ships Cook, F. Wallace, Sea 1, A. Spain, Robt & F. Feeney, P.M. At 10m General Court Martial convened H. Wesley, President, Lieuts Sagrimway, Rees, Lieut R. S. Wainwright U. S. N. C, Surgn Hawks, P.A. Surgn Greig, P.A. Engineer Barton, Members and Lieut A. V. Wadhams U. S. N. Judge Advocate met at 10m for the trial of T. J. Clifford, Sea 2 C, and such other persons &c. Transferred to Naval Hospital J. O'Neil, Lab. At 10m called away "all boats armed and equipped" 3 boats provided & inspected, did not leave. By order of Commdg Officer confined P. Feeney, Sea C, in double irons for five (5) days for disrespect to officer of the deck. Returned A. Hawkins Sea & H. Fold Sentry from sentry charge. At 11 35m General Court took a recess until 1 P M. Placed H. C. Barton, P.M. under sentry charge vice other. Discharged by reason of coon, request H. Tokich, Stg Steward by order of Commdg Officer. At 10 30m T. J. Clifford Sea 2 C was delivered to the provost of the court, he was confined in the adjournment for recess. Expended in Ord dept. 1-10 g charge.

E. D. Galloway
Lieut U. S. N

From Meridian to 4 P. M.

Clear and cool. Light airs and breezes from N. E by N. Gentle to stiff breezes in squalls from N. by E. At 2.35 Court Martial adjourned until 10 A. M. March 30th. T. J. Clifford Sea 2 C, was returned to confinement. F. Wallace, Capt & A. Spain, Robt returned on board 24 hours overtime. Henry Linden, Sea Jr, returned on board 31 hours overtime. P.M. S.S. City of Rio Janeiro came in & anchored. Expended in Ord dept 2-10 ca powder 1 ca charge & 1 ca fuse.

B. H. Wavering
Lieut U. S. N.

From 4 to 8 P. M.

Clear and cold. Fresh to moderate breeze from N. by E. At 4m officer boarded Stm City of Rio de Janeiro. J. Shields, Ships Cook, returned on board 3d hrs overtime. At 5m mustered at quarters. J. Daley, Sea. J. H. Bussman, P.M. F. Walls, P.M & J. F. Feeney, P.M. absent without leave. Released H. C. Barton, P.M. from sentry charge he being other. At 6m Frolls, P.M. returned on board. Received charges & specifications in case of F. J. Gaynor, late Capt, and were served on him.

E. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight

Generally clear. Moon set at 9.50. Gentle to moderate breezes in squalls from North.

B. H. Wavering
Lieut U. S. N.

Examined and found to be correct.

A. V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
Sunrise	different tide			N by W	N by E	3			29.80	48	41	37		b.	nme	10	S.
2				"	"	3			29.80	48	40	37		"	"	10	"
3				"	"	4			29.80	48	40	37		"	"	10	"
4				N. N. W	N. N. W	4			29.80	48	41	37		"	"	10	"
5				North	N. by W	3			29.79	47	41	37		b. c.	cst	9	"
6				"	"	2			29.81	48	41	37		"	"	9	"
7				N. W	N. W.	2			29.83	48	41	37		"	"	9	"
8				N by W	N by W	2			29.85	48	41	37		"	"	9	"
9				"	"	2			29.83	46	44	39		b.	nme	10	"
10				"	"	2			29.85	35	41	42		"	"	10	"
11				"	"	2			29.84	34	48	45		"	"	10	"
Noon.				N. W. by N.	N. W. by N.	2			29.84	36	50	44		"	"	10	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: { Latitude by D. R. ° ′ ″ ; Longitude by D. R. ° ′ ″ ; Latitude by observations of ☉ ° ′ ″ ; Longitude by chronometer from Forenoon Observations of ☉ ° ′ ″

Position at 8 a. m. { Latitude by ° ′ ″ ; Longitude by ° ′ ″

Position at 8 P. M. { Latitude by ° ′ ″ ; Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ☉ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ☉ observed at " ° ′ ″

Variation of the Compass by Azimuth ☉ observed at " ° ′ ″

Water expended during the preceding 24 hours, 360 gallons.

Water——————— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2290 "

Coal consumed during the preceding 24 hours, 1 tons 796 lbs.

Coal remaining on hand at Noon, 73 " 488 "

P. M.									
1	N. E by E.	Calm	0	29.85	49	48	b.	nme	10 S.
2	S. S. E.	S. S. E.	1	29.85	49	46	b. c.	cumu	9 "
3	"	"	1	29.85	49	46	"	cirrus	8 "
4	"	"	1	29.86	49	46	"	"	7 "
5	"	"	0-1	29.86	49	46	"	"	7 "
6	N. N. E	N. by E.	2	29.85	49	45	"	"	8 "
7	N. by W.	N. N. W.	2	29.85	49	45	"	"	8 "
8	N. N. W.	"	2	29.87	48	45	b.	nme	10 "
9	N. by W.	N. by W	3	29.86	48	45	"	"	10 "
10	"	"	3-4	29.85	49	44	"	"	10 "
11	N. N. W	N. N. W.	3-4	29.91	48	49	"	"	10 "
Mid.	"	"	3-4	29.93	49	46	"	"	10 "

under the command of Commander T. F. Moore, U. S. Navy,
Wednesday March 30th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clear, and cool. Moderate breezes from North & N. N. W.
C. S. Sigsbee
Ensign U. S. N.

From 4 to 8 A. M.
Clear and cool. Gentle breezes from N. W. Relieved T. Broderick, Cox'n, from charge of sentry he being sober. At 8 Flagship made signal 6 o'cl. Crossed royal yards.
C. G. Calloway
Lieut U. S. N.

From 8 A. M. to Meridian
Clear, pleasant weather. Light breezes from N. by W. & N. W. by N. At 9 inspected at quarters. Exercised 1st & 2d Divisions at Great Guns, Cutlasses at Stations, Pistols at Single Sticks & Marines at Skirmish Drill. Placed J. Daley Sea, under Sentry & charge till sober by order of Duty Officer. Released P. Tarpey, P. M, his term having expired. General Court Martial met at 10 pursuant to adjournment and took a recess at 11.00. At 9.20 signalled 3 & 4. Harim, answered. Expended one howitzer charge (10 oz), for Court Martial and also one (1) pyrotechnic Cartridge.
L. G. Walling
Lieut U. S. N.

From Meridian to 4 P. M.
Clear and pleasant. Calm and light airs from S. S. E. At 1 P. M. General Court met and adjourned at 3 P. M. Instructed Apprentices in Signals. Released P. Hammond, P. M, by order of Duty Officer.
A. V. Dechert
Ensign U. S. N.

From 4 to 8 P. M.
Clear and pleasant. Light airs from S. S. E. & Calms. Light breezes from South to N. N. W. Placed J. Middleton, Sea 2 C, under Sentry & charge till sober by order of Duty Officer.
L. G. Walling
Lieut U. S. N.

From 8 P. M. to Midnight
Clear and cool. Gentle to moderate breeze from N. by W. & N. N. W.
A. V. Dechert
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d **Rate,**

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ship's Head													
1			Apparent Side	N. N. W.	N. N. W.	2-3			29.93	50	43	38		b. c.	cir-cum	9	9
2				"	"	2			29.95	50	41	37		"	"	8	"
3				"	"	3			29.96	50	41	37		"	"	8	"
4				"	"	1-2			29.96	50	41	38		"	"	9	"
5				N. N. E.	N. N. E.	0-1			30.00	61	43	39		b.	nme	10	"
6				"	"	0-1			30.00	26	1	43	39	"	"	10	"
7				"	"	0-1			30.00	30	1	42	39	clr	"	10	"
8				N. E. by N.	"	1			30.00	52	43	39		"	"	10	"
9				E. N. E.	E. N. E.	1			30.00	56	45	42		b. cl.	cir	9	"
10				E. by N.	E. by N.	2			30.00	63	47	42		"	"	9	"
11				E. by S.	E. S. E.	2			30.05	63	49	44		"	"	9	"
Noon.				E. S. E.	East	2			30.03	61	47	44		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 40 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1890 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, " "

P. M.																	
1				E. by S.	East	1-2			29.99	58	50	45		b. c.	cir-str	8	S
2				S. S. E.	S. S. E.	3			29.95	58	53	48		"	"	9	"
3				"	"	3			29.92	58	54	49		"	"	8	"
4				S. by E.	S. by E.	3			29.91	61	54	49		"	"	8	"
5				South	South	2			29.92	62	55	50		"	cir-cum	2	"
6				"	"	2			29.93	60	55	50		"	"	5	"
7				"	"	2			29.93	59	55	51		"	"	2	"
8				"	"	1			29.90	61	55	51		"	cum-strat	1	"
9				"	"	1			29.89	60	55	51		"	cir-cum	2	"
10				S. S. W.	"	1			29.89	58	54	50		"	"	2	"
11				S. W.	S. W.	1			29.89	58	54	50		"	"	2	"
Mid.				W. S. W.	"	1			29.90	57	54	50		"	"	8	"

under the command of Commander T. F. Jewett, U. S. Navy,

Thursday March 31st, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.

Generally clear with light cir: cumm clouds. Bright starlight: gentle breeze to light airs from N.N.W.

H. Tompstone
Ensign U.S.N.

From 4 to 8 A.M.

Clear and cool. Calms, and light airs from N. to E.

C. Galloway
Asst. Surg. U.S.N.

From 8 A.M. to Meridian.

Clear and pleasant. Light airs from E.N.E. to E.S.E. At 9h: inspected at quarters, and exercised Sabigators and 3d. tops at single stick, at 10h: General Court Martial convened on board. At 10h: called all hands to muster and published sentence of General Court Martial in the case of T. J. Clifford, Sea app'r &c. The sentence being as follows "To be confined on board the Essex without irons until the steamer sails which leaves Yokohama about April 6th. next. To be sent to the United States on that steamer and confined in such prison as the Secretary of the Navy may direct for the year: to lose all pay now due or that may become due him, except two dollars per month and twenty-five dollars to be paid him at the expiration of his term of confinement. Then to be dishonorably discharged from the service. At 10½ drilled the infantry company of the battalion. At 11h: Sighted an American man-of-war entering the harbor. Expended in Ord dept 1-10 cg charge and 1 percussion primer. By direction of Duty Officer placed H. Bussman P.M. under sentry's charge to await his getting sober. At 11½ the "Brooklyn" anchored in the harbor.

A. T. Long
Ensign U.S.N.

From Meridian to 4 P.M.

Clear bright and pleasant with cir cumm clouds. Light airs to breeze from East 1st hour. Gentle breeze from S.S.E. & S. by E. afterwards. Commanding Officer paid an official visit to U.S.S. "Brooklyn". At 1h: P.C. Hunt pursuant to recess. U.S.S. "Brooklyn" moved ship. T. Denton C.T. came on board 2½ hours overtime. Released J.H. Bussman, P.M. from confinement, he being sober. Wm. Branigan, C. to, came on board 4½ hours overtime, drunk and could not be put under sentry's charge. At 3h: J.C. Maloyney was piped to quarters, afterwards.

H. Tompstone.
Ensign U.S.N.

From 4 to 8 P.M.

Clear and pleasant at beginning. Cloudy towards end of watch. Five boats belonging came on board 4 hours overtime. Light breeze from South. A Japanese man-of-war flying a Rear admirals flag came in. Sent an officer to make the usual visit. Flagship made signal 60 to. At sundown sent down royal yards

From 8 P.M. to Midnight.

A. T. Long
Ensign U.S.N.

Generally clear cold light cir cumm clouds. Cold. Bright moonlight. Light airs from South & S.W.

H. Tompstone.
Ensign U.S.N.

Examined and found to be correct.

A. Markham. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Esk", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A.M.				Ship's Head													
1			Different tide	N.W.	N.W.	1			29.865	49	49			b.c.	cir.cum	8	S
2				N.N.W.	N.N.W.	1			29.865	49	49			"	"	7	"
3				"	"	1			29.865	48	46			"	"	7	"
4				"	"	1			29.865	44	45			"	"	6	"
5				N. by W.	North	0-1			29.905	6	44	45		"	"	7	"
6				"	N. by W.	1			29.905	44	46	43		"	"	5	"
7				North	"	1			29.915	44	46	44		"	cum.cirr.	2	"
8				N.E. by N.	"	0-1			29.935	55	49	45		"	"	2	"
9				N.E.	N.E.	1			29.935	55	49	46		"	"	3	"
10				N.E. by E.	"	1			29.945	80	52	49		b.cum.cirr.		2	"
11				S.E. by E.	Calm	0			29.925	95	55	52		"	"	2	"
Noon.				E.S.E.	"	0			29.926	0	56	52		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1490 "

Coal consumed during the preceding 24 hours, tons 1136 lbs.

Coal remaining on hand at Noon, 41 " 1132 "

P. M.																	
1				N.E.	Calm	0			29.926	0	56	53		b.c.	cir.cum	5	S
2				"	"	0			29.926	0	56	53		"	"	5	"
3				South	"	0			29.926	0	58	54		"	"	6	"
4				S.S.E.	S.S.E.	1			29.906	1	59	54		"	"	6	"
5				S.E. by S.	Calm	0			29.896	1	59	53		b.cum.	str	4	"
6				S.E.	"	0			29.896	1	58	55		"	"	4	"
7				"	"	0			29.916	1	58	55		"	"	3	"
8				S.E. by S.	"	0			29.946	1	62	54		"	"	6	"
9				E.S.E.	East	0-1			29.946	0	62	54		"	cir.cum	6	"
10				E.N.E.	Calm	0			29.976	0	62	58		"	"	6	"
11				N.E.	N.E.	1			29.986	0	57	49		"	"	4	"
Mid.				E. by N.	East	0-1			29.986	0	56	50		a.c.	cum.strat	0	"

under the command of Commander T. F. Jewett, U. S. Navy,
Friday April 1st, 1853.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.
Clear and calm.

From 4 to 8 A. M.
Partially cloudy. Light airs from N.W. and N. by W. Placed J. A. Williams 2 C. A. under suitable charge to await action of the Deputy Officer for misconduct to officer of the deck.
W. B. Hoggatt Ensign U. S. N.

From 8 A. M. to Meridian.
Partly clear with cumulus and nimbus clouds, foggy 1st hour, hazy afterwards. Light airs from E. first part. Calm afterwards. Released from suitable charge Wm. Brannigan C. A. and confined for three days on Report for misconduct to officer of deck. Divine Service at 9 A. M. for inspection after which drilled as follows, 2d Div. Great Guns, Rifles, Marines, Small Arms. Steam launch blew out section of coil tubing. Japanese Gunboat "Kiyi Kan" went to sea. At 10 A. M. met pursuant to adjournment of yesterday. Expended 4 - 10 lb charges and 1 Percussion Primer. Court adjourned at 10 A. M. to meet on board U. S. S. Marion at 10 A. M. Published proceedings, finding and sentence of F. J. Jayson C. A. sentenced to be confined without irons on board the Vessel, until opportunity offers to send him to the U. S. where he shall be sent to the Secretary of the Navy, there confined in such prison or penitentiary as the Secretary of the Navy shall direct for the period of one year, to lose all pay that may become due during said period of confinement except the sum of two dollars per month for necessary prison expenses & the sum of twenty-five dollars to be paid him on the expiration of his term of confinement, total loss of pay $37.00 & at the expiration of said confinement to be dishonorably discharged from the Naval Service of the U. S. Proceedings, findings & sentence approved by Commodore in chief & prisoner ordered to be transferred to custody of Commdt of the Navy Yard Mare Island by steamer leaving Yokohama about April 6th 1853. F. J. Jayson C. A. was confined on board
H. C. Towne Master
Ensign U. S. N.

From Meridian to 4 P. M.
Clear calm & pleasant. J. C. M. resumed its session at 1 P. M. on board the U. S. S. "Marion". At 2.50 commenced distilling.
W. B. Hoggatt Ensign U. S. N.

From 4 to 8 P. M.
Partly clear with cumulus & Strato clouds. Hazy. Moonlight latter part. Calm. At 6 P. M. went to Fire Quarters. All ready at 7 M. 6 P. M. Recovered 3 lbs Absent without leave W. Fitzgerald Lds. R. W. Phillips, 2d A. 2 C. & F. J. Buchanan Sea. 2 C. R. W. Phillips, 2d A. 2 C. & F. J. Buchanan Sea. 2 C. came on board & his quarters. Distilling.
H. C. Towne Master
Ensign U. S. N.

From 8 P. M. to Midnight.
Clear and calm first three hours. Last hour cirro cumulus came out and clouds from East Northerly in quadrant squalls. Distilling.
W. B. Hoggatt Ensign U. S. N.

Examined and found to be correct.

N. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the Harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.																	
Apparent noon				E. N. E.	E. N. E.	2			30.025	65	350			b.c.	cumulus	0	S
2				"	"	2			30.055	86	350			"	"	0	"
3				"	"	2			30.065	86	350			"	"	0	"
4				N. E.	N. E.	2			30.065	85	350			"	"	0	"
5				"	"	2-3			30.005	80	348			b.c.	"	0	"
6				North	N. N. E.	2-3			29.995	80	348			"	"	0	"
7				N. by W.	N. N. W.	2-3			29.985	79	346			"	"	0	"
8				North	North	2-3			29.960	78	346			o.c.	"	0	"
9				"	"	2			29.965	78	346			o.c.	"	0	"
10				"	"	2			29.950	79	342			"	"	0	"
11				N. by W.	"	2			29.905	78	346			"	"	0	"
Noon.				N. N. W.	N. N. W.	2			29.860	74	346			"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 1020 "

Water remaining on hand fit for use at Noon, 24000 "

Coal consumed during the preceding 24 hours, 3 tons 948 lbs.

Coal remaining on hand at Noon, 68 " 184 "

P. M.																	
1				N. W. by N.	N. W. by N.	3			29.825	74	346			o.c.	cumulus	0	S
2				N. N. W.	N. N. W.	4			29.746	74	346			"	"	0	"
3				North	North	3			29.716	74	346			"	"	0	"
4				N. N. W.	N. N. W.	3			29.656	74	345			"	"	0	"
5				N. by W.	North	3			29.606	74	345			"	"	0	"
6					"	3			29.556	74	346			"	"	0	"
7				N. N. W.	"	3			29.495	74	346			"	"	0	"
8				N. by W.	"	3			29.485	74	346			"	"	0	"
9				"	"	3			29.435	74	346			"	"	0	"
10				N. N. W.	"	3			29.395	74	345			"	much	0	"
11				N. by W.	"	3			29.355	74	346			"	"	0	"
Mid.				North	"	3			29.326	74	346			o.c.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday April 25, 1885.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Cloudy and cool. Light breeze from E.N.E.
D. Evans
Ensign U.S.N.

From 4 to 8 A.M.
Overcast with rain which clouds, Dripping east hour. Light to gentle breeze from N.E. to N.N.W. Made preparations for coaling ship. Floating made for sea. Moored ship. Inboard short chain. Let port anchor and hove in to 30 fms on starboard chain.
D.C. Evans 2d Lieut.
Ensign U.S.N.

From 8 A.M. to Meridian
Overcast cloudy and raining. Light breeze from West & N.N.W. At 9 A.M. started fires under boilers 1, 3, 5, 4, 6 & 8. P.C. Hancock removed on board the "Marion" at 10 A.M., dissolved at 10.45 A.M. Transferred Pvt. Kelsey Jas to the Naval Hospital. Sent fore topmast staysail and main trysail. Engaged in coaling ship. Received 13 tons Pocahontas coal. Making preparations for sea. Received 40 gallons illuminating oil in Naval gator light.
W.B. Haggatt
Ensign U.S.N.

From Meridian to 4 P.M.
Overcast and rainy weather. Moderate breeze from N.N.W. and West. Transferred to the U.S.S. "Marion" with bags hammock and papers T.J. Cliffin Q.M. 2 C, A.T. Bissett 1.C.A, and F.J. Joyner 1.C.A. Prisoners at Naval Court Martial prisoners and W.O. Land 1.C.A. Made preparations for sea. At 3. Steam reported ready. Hauled fires under boilers. Finished coaling ship having received in all 40½ tons. ~~Received from Capt Hospital and discharged~~
D.F. Walling
Lieut U.S.N.

From 4 to 8 P.M.
Overcast cloudy and raining. Little breeze from South. Banked fires. Bitted chain with 5 fms at hawse hole.
W.B. Haggatt
Ensign U.S.N.

From 8 P.M. to Midnight
Overcast cold and rainy. Wind light from South. Barometer falling rapidly. At 8.00 veered to 45 fathoms on starboard chain.
D.C. Galloway
Lieut U.S.N.

Examined and found to be correct.

A.V. Williams. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Yard Guet.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				North	North	2			29.30	56	44	46		clr	cumuli	0	S.
1				N. by E.	"	2			29.24	56	44	45		"	"	0	"
2				North	"	2			29.26	56	44	45		"	"	0	"
3				"	"	2			29.24	57	44	46		"	"	0	"
4				N. by E.	"	2			29.22	56	43	46		p.c.	"	0	"
5				N. N. E.	East	2			29.22	56	43	45		"	"	0	"
6	Getting Underway			"	"	2			29.25	56	43	45		p.cl.	"	0	"
7	Steamed out of Harbor.			"	"	2			29.25	56	43	45		"	"	0	"
8			65.4	S. by W.	N. E.	2			29.25	56	44	45		"	"	0	"
9	4	4	73.4	S. W. by W. 1/2 W.	"	2			29.24	56	49	47		"	"	0	"
10	8	0	81.4	"	"	2-3			29.23	52	49	45	54	p.c.	"	0	"
11	8	2	89.6	S. W. by W.	W. N. W.	2-3			29.23	52	49	45	54	p.cl.	"	0	"
Noon.	8	1	97.4	"	"	3			29.23	50	48	50	54	b.cl.	"	1	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2040 "

Coal consumed during the preceding 24 hours, 6 tons 546 lbs.

Coal remaining on hand at Noon, 102 " 454 "

P. M.														
1	4	3 6	46	S. W. by W.	E. by E.	5	29.25	53	55	46	b.cl.	cir cum cumuli	3	S.
2	6	0	10.6	"	Variable	3-4	29.22	53	53	48	b.cl.	circum	5	R.
3	3	0	16.3	N. E. 1/2 N.	N. E.	3-4	29.25	56	44	48	"	"	6	R.
4	5	1	21.4	S. W. 1/2 W.	West	5-4	29.23	53	51	45	"	"	4	"
5	2	6	24.0	"	"	6	29.22	53	51	46	"	"	4	R.
6	0	3	24.0	S. W. by W. W. 1/2 W.	"	6	29.26	53	51	45	"	"	5	"
7	2	3	27.3	"	"	5.8	29.28	52	51	46	"	cum cumuli	4	"
8	2	3	29.5	"	"	5.8	29.29	51	49	45	"	"	4	"
9	0	2 6	29.4	W. 1/4 N.	W. N. W.	5.8	29.30	50	48	46	b.cl.	cum	4	"
10	6	9	30.3	N. E. by N.	"	5.8	29.30	50	47	46	"	"	4	"
11	2	0	32.3	North	"	4-6	29.30	50	46	46	"	cir cum	3	"
Mid.	8	8	40.0	N. N. E.	"	4-5	29.31	49	45	46	b.cl.	"	6	R.

under the command of Commander T. F. Howell, U. S. Navy,

Sunday April 6th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unties A. M.

Overcast, rainy weather. Light breezes from South.

From 4 to 8 A. M.

Lieut W. T. Wasing U. S. N.

Overcast, cloudy and drizzling rain. Light breeze from South & East. At 5.30, called all hands up, anchor aweigh and at 5.50, got underway & stood out of Yokohama Bay. At 6.15 sent down topgallant yards. Made signal Int 4790 before getting underway. Answer from Flagship 98 at. At end of watch standing down Bay of Yedo with the Navigator at the conn. Draft of ship fwd 14 ft. aft 16 ft 4 in.

From 8 A. M. to Meridian.

Ensign W. B. Hoggatt U. S. N.

Overcast, cloudy, unsettled weather. Wind shifting between East & S. S. W., by way of South. Light drizzle at times with rain squalls from N. W. at noon. Moderate broken sea first part with long swell from S. W. when near Vries Island. At 10½ mustered at quarters. No absentees. Released from confinement P. Comd. G. A. 2 C, his time having expired by order of Comdg Officer. Made sail as under. At end of watch Vries Island bore abeam S. E.

From Meridian to 4 P. M.

Lieut C. H. Galloway U. S. N.

Partly cloudy weather with drizzling rain first hour. First hour gentle breeze from E. N. E. Second hour wind shifting continually and rapidly in force from light to very fresh breeze. Wind shifted at 2.15 to S. W. & blew fresh. Heavy sea. Tore ship to N. E. ½ N. at 2.23 & to S. W. ½ W. at 2.40 & set foresail, double reefed having taken in all sail at 1.20. Took in and furled sail at 3.20 wind falling light & at 3.40 breeze sprung up fresh from N. W. shifting quickly to West. Barometer steady. Ship pitching deeply. At end of watch blowing very fresh from W. by S. Bearings at 4 Rock Is & Lt House W. ¾ W.; "O" Sima, S. E. by S.

From 4 to 8 P. M.

Lieut D. T. Wasing U. S. N.

Clear & cool. Fresh breeze from West. Rough sea. At 5a.m. changed course to S. W. by W. ½ W. & at 5 4 to W. S. W. ½ W. Set main trysail at 5a.m. took it in at 5.46. Hoisted dinghy inboard.

From 8 to 8 P. M.

A. T. Leighton Ensign U. S. N.

Partly clear with cumulus clouds, moving fast. Hazy early part of watch. Fresh breeze to moderate gale in heavy squalls from West. Rough sea from W. to which ship rolled easily but pitched as much as 13° at times. On course W. S. W. ½ W. under steam alone, engines turning over 38 revs. At end of watch Rock Island Light bore (fm) about W. ½ N. Mainland in sight on starboard beam and astern. Islands on port beam & quarter.

From 8 P. M. to Midnight.

H. Longstaff Ensign U. S. N.

Partly clear & squally first part. Clear last part. Fresh breeze to moderate gale in heavy squalls first two hours, decreasing to moderate breeze last hour. Rough to moderate sea from W. At 10. called all hands & secured ship, stood inshore for smoother water then N. N. E. At 10.20 started fires under boilers 2 set & at 11.30 connected to engines. Lost sight of Rock Island Light, S. W (fm) at 11.20.

Examined and found to be correct.

W. B. Hoggatt
Ensign U. S. N.

S. T. Workam Lieut & Navigator.

LOG of the UNITED STATES Steamer "Gem", 3d Rate,

Fr do Gem

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				N. N. E.	W. N. W.	4-5			29.395	0	46	43	55	b. c. d.	cir-cumu	9	M
1	3	2	49.0	S.W.													
2	4	0	52.4	"	"	4-5			29.405	0	46	43	54	"	"	8	"
3	4	4	56.8	"	"	4-5			29.405	1	45	43	54	"	"	8	"
4	4	3	60.1	"	"	4-5			29.44	9	44	41	54	"	"	8	"
5	6	9	66.0	N. E.	"	6-9			29.415	0	44	42	54	b. c. g.	"	8	L
6	8	4	80.4	N. N. E.	"	4-5			29.435	0	45	43	54	"	"	8	"
7	8	6	89.0	N. E. 3/4 E.	"	4-5			29.465	1	47	43	54	b. c.	"	6	M
8	9	5	98.5	N. E. 1/2 E.	"	3-4			29.485	1	46	43	54	"	"	6	"
9	9	0	107.5	"	"	4-5			29.515	1	44	42	54	"	"	4	"
10	Standing in to anchorage Ships Head				"	4			29.565	1	42	43	54	"	"	5	9
11				East	"	3			29.545	1	42	43		"	cumu	5	"
Noon.				"	"	3			29.595	3	51	45		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by D. R. N. 34° 48' "
- Longitude by Chron. P. M. Obs. W. 39° 20' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 480 "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, 15 tons 2200 lbs.

Coal remaining on hand at Noon, 86 " 768 "

P. M.													
				Ships Head									
1				W. by N.	West	2	29.565	3	44	b. c.	cu-mu	4	S. g.
2				N. W.	W. N. W.	2	29.585	4	45	"	"	4	"
3				W. N. W.	"	1	29.605	4	44	"	"	3	"
4				S. E.	E. N. E.	2	29.625	5	44	"	"	6	"
04 1034													
N 35°	5	2	20.1	S.W. 1/2 W.	S. by W.	1	29.645	5	46	"	"	2	"
0139.34	6	4	24.8	"	"	1	29.705	6	47	"	"	4	S.
7	8	1	35.9	"	N. N. E.	2-3	29.735	6	49	"	"	4	"
8	9	9	43.8	"	N. E.	2-3	29.765	6	49	"	"	8	"
9	8	4	52.2	"	"	3-4	29.805	4	49	"	"	4	L
10	8	2	60.4	"	"	3-4	29.845	5	49	"	"	4	"
11	3/5	4/5	64.5	S.W. by W. 1/2 W. W. by S. 1/2 S. by W.	East	2-3	29.905	6	49	"	"	6	L. K.
Mid.	3/5	2/5	43.4	S. by W. 1/2 W.	N. E.	2-3	29.925	6	49	"	"	8	"

under the command of Commander T. F. Jewett, U. S. Navy,

Monday April 4th, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Mids 4 A. M.

Clear & cold. Moderate to fresh gale from W.N.W. with heavy puffs increasing towards end of watch. Lightning along horizon to the E.d Hove set about 3. At 12.10 changed course to S.W. At 1.10 Sighted Rock Island Light ½ point on starboard bow, while going S.W. Wind & sea rapidly increasing. At 3.00 set main trysail. At 12.15 took two boilers off engine for distilling purposes. At 3.30 started water into tanks. At end of watch Light-house (p.c.) W. & W.¼ W. Barometer steady.

A. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M.

Clear weather. First two hours moderate breeze to strong gale from W.N.W with heavy sea moderating under lee of land. At 4.15 stood ship to N.N.E & put boilers 1 & 3 on engines. At 6.00 set main N.E. & E. ½ E. & E & changed it at 6.15 to N.E. by E. ½ E. & at 6.30 to N.E. ½ E. Set fore & aft sail. Bearings at 8.00 First Yama N.W. ¾ W. & Observation Point, Ships Hull, S.S.W. ½ W. (p.c.). Sighted two steamers.

B. F. Waring
Lieut U. S. N.

From 8 A. M. to Meridian.

Generally clear & cool. Fresh to stiff breeze from W.N.W. During first hour of watch steering course N.E. ½ E. then standing in for anchorage in Kaneda Bay. At 9.10 shut off two boilers for distilling. At 9 to called all hands. At 10.25 anchored in Kaneda Bay with port anchor & 45 fms in port chain. Bearings of anchorage Sunda Saki N.E. ¼ N. (p.c.) Double Hill S.E. by E. ¼ E. (p.c.). At 9.28 furled fore & aft sails. Released G. A. Williams, 2.C.A. his term of confinement having expired. Banked fires under cylinders. Draft forward 13 ft 5 in. aft 15 ft 6 in.

A. F. Teeple
Ensign U. S. N.

From Meridian to 4 P. M.

Partly clear, pleasant. Cirrus clouds. Light airs to breeze from West & W.N.W. shifting last hour to E.N.E. At 12 to hauled fires in boilers 2 & 4, tubes leaking. Rove off port cat & fish & made preparations for sea. At 3.20 stopped distilling & got steam on distilling boilers, ready for use on engines. Brought to port chain & hove in to 15 fms. Outlook sea with easy ground swell to which ship rolled slightly.

N. C. Tannatoya
Ensign U. S. N.

From 4 to 6 P. M.

Clear & pleasant. Light airs from S.S.W. Smooth sea, long swell from S. At 4, called all hands up anchor. At 4.10 got underway & stood out of Kaneda Bay. Standing down Bay of Yds remainder of watch. Draft of ship fwd 13 ft 6 in, aft 15 ft 6 in. At 4.30 hoisted our colors & hauled log & set course S.W. ½ W. Steaming with six boilers.

W. B. Hoggatt
Ensign U. S. N.

From 6 to 8 P. M.

Clear & pleasant. Gentle breeze from South veering to East then North & N.N.E. At sunset mustered at quarters. Sent up topgallant masts, sent topgallant sails & crossed topgallant yards. Bright moonlight. Heavy swell from S.W. moderating towards end of watch.

A. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight

Clear, cool weather. Bright moonlight & starlight. Light to gentle breeze from N.E. At 8.10 set topsails, foresail & jib. At 8.30 set main topgallant sail. At 10.30 changed course to S.S.W. by W. At 10. to the S.W. by W. ½ W. At 11 to S. by W. & at 11.30 to S. ½ W. At 10.50 passed Rock Island light-steam distant 2 miles. Sighted it at 8.40. Long heavy swell from S.S.W. & W. Passed two barges heating to N.N.W. & E. At end of watch ship under topsails foresail, jib & main topgallant sail, steaming with six boilers. Bearings at 12 Iro-no-Saki Light-House N. 5/8 W. Rock Island Light House N.E. 5/8 E.

B. F. Waring
Lieut U. S. N.

Examined and found to be correct.

P. V. Wareham Lieut & Navigator.

LOG of the UNITED STATES Steamer "Ess", 3d Rate,

At Sea making passage to Nagasaki.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	5	2	49.1	W ½ S	N.E. W. N. W.	3			29.92	65	52	48	56	bc	cir cumm	5	M L
2	5	9	63.5	W. ½ W. S	"	3			29.93	54	49	45	56	"	"	9	"
3	5	1	88.6	"	"	3-4			29.94	53	48	43	56	"	"	9	"
4	5	0	93.5	"	N. N. W.	3-4			29.96	53	48	43	56	"	"	9	"
5	5	2	98.7	"	N.W. by W.	3-4			29.94	53	48	43	56	"	"	9	N
6	6	5	105.2	"	N.W.	4			29.98	50	47	43	57	"	"	8	"
7	4	2	12.4	"	"	4-5			30.01	50	46	45	57	"	"	8	"
8	4	1	19.5	"	"	4-5			30.06	50	46	45	57	"	"	9	"
9	4	3	26.8	"	"	4-5			31.02	52	47	44	61	bcuu	"	6	"
10	4	1	33.9	"	"	4-5			30.11	52	48	47	61	"	"	4	"
11	8	4	42.6	"	N.W. by N.	4-5			30.11	52	48	47	60	"	"	2	"
Noon.	4	5	50.1	"	N.W.	4-5			30.13	53	49	47	60	bc	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ N 34 ° 08' "
- Longitude by chronometer from Forenoon Observations of ⊙ E 137 ° 15' "

9.1034

Position at 8 a. m.:
- Latitude by D. R. N 34 ° 14' "
- Longitude by Chro. do do do E 137 ° 49' "

Position at 8 P. M.:
- Latitude by D. R. N 33 ° 52' "
- Longitude by Chro. P. M do do E 136 ° 22' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 3 54 " W. ½ S W 3 ° 34' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 360 "

Water remaining on hand fit for use at Noon, 2200 "

Coal consumed during the preceding 24 hours, 11 tons 1752 lbs.

Coal remaining on hand at Noon, 214 " 1456 "

P. M.												
1	4	2	52.3	W. ½ S.	N.W. by N.	4-6	30.13	53	49	47	59	bc. cir cumm 5
2	4	4	65.0	"	"	4-6	30.11	54	49	47	59	" " 5
3	5	9	73.9	"	"	4-6	30.10	54	52	48	59	" " 6
4	5	4	82.3	"	W. by W.	2-3	30.11	55	54	49	59	" " 2
5	5	1	90.4	"	"	3	30.11	56	55	48	61	bcg. cirstr 2 "
6	5	5	98.9	"	"	3	30.11	56	55	49	62	" " 2 "
7	4	4	103.3	W. by W. ½ W.	W. by W.	3	30.16	56	56	49	62	bc " 8 "
	2	7	110.0	W. by W.								
	2	5	114.5									
8	5	4	15.4	"	"	3	30.15	63	56	50	62	bcg. " 4 "
9	5	3	24.0	"	"	3	30.14	66	55	49	60	" " 8 "
	2	4	27.4									
10	2	3	31.0	S. W. by W.	W. N. W.	3	30.15	62	56	50	60	" " 6 "
	1	2	32.4	S. W. by S.								
	2	2	36.6									
11	2	2	38.8	Steered S. W. by S.	W. by N.	4	30.14	62	56	50	60	" " 5 "
	5	5	46.0									
Mid.	4	1	48.1	S. W. by W.	"	4	30.14	61	56	50	60	" cir cumm 2 "

under the command of Commander T. F. Jewett, U. S. Navy,

Tuesday April 5th, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Latter part

Clear & cool. Bright moonlight. Gentle breeze from N. E. until 100 when it shifted to N. N. W. Furled all sail. Steered down for twenty minutes & headed her S. W. for two minutes. At 2.15 lost Rock Island Light. At 3.30 made Omai Saki Light bearing N. W. Long ses. Ship pitching heavily at times. At end of watch under steam, alms. Course W. ½ S.

A. F. Keighly
Ensign U. S. N.

From 4 to 8 A. M.

Generally clear with light cir. cum clouds. Hazy last hour. Gentle to moderate breeze from N. W. by W. 1st hour increasing to stiff breeze from N. W. afterwards. Moderate sea & swell from N. W. At 5.0 set fore & aft. sail, took it in at 5.04 & set it again at 6.30. At 6.10 Omai Saki Light bore abeam bearing as heretofore. Lead W. ½ S. P. L. 106 2. At end of watch under steam & fore & aft sail, on course W. ½ S.

H. C. Poundstone
Ensign U. S. N.

From 8 A. M. to Meridian

Generally clear with light cir. cum clouds. Moderate to stiff breeze from N. W. & N. W. by N. Moderate sea from N. W. At 9.35 went to quarters for inspection. 1st 2d & 3d Divisions exercised at stations. At end of watch under steam & fore & aft sail, on course W. ½ S.

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P. M.

Fair hazy weather. Fresh breeze from N. W. by N. moderating gradually until 3.30 when shifting suddenly to West & W. S. W. & becoming light. Sea rapidly smoothing down. At 3.45 took in fore & aft sail. At 1.0 sighted high land N. W. (fc) At end of watch land in sight from W. ½ N. to N. N. W.

Lt. D. Galloway
Lieut U. S. N.

From 4 to 6 P. M.

Clear & cool. Gentle breeze from W. S. W. Steering a course W. ½ S.

D. H. Wallace
Lieut U. S. N.

From 6 to 8 P. M.

Clear & pleasant. Bright moonlight. Hazy around horizon towards end of watch. Gentle breeze from S. W. At 6.30 changed course to W. S. W. ½ W. P. L. 33. At 6.45 changed course to W. S. W. P. L. 0. Under steam alone.

A. F. Keighly
Ensign U. S. N.

From 8 P. M. to Midnight

Partly clear with cir. cum. str clouds. Hazy over the land. Gentle breeze from S. W. 1st hour, shifting to gentle to moderate breeze from W. N. W. & W. by N. At 9.35 changed course to S. W. by W. P. L. 28. 4. At 9.50 set fore & aft sail. At 9.51 changed course to S. W. by S. P. L. 32.0. At 10.11 took in fore & aft sail. At 10.31 changed course to South P. L. 36. 6 & at 10.40 to S. W. by S. P. L. 31.8. At 11.20 sighted Oi Suma Light bearing (fc) W. S. W. Changed course to S. W. by W. P. L. 46.0. At end of watch Oi Suma Light bore (fc) W. S. W. ½ W. Land in sight on starboard hand during watch.

H. Paynter
Ensign U. S. N.

Examined and found to be correct.

H. H. Warham Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Kobe

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	6	55.7	S.W. by W.	West	4			30.14	60	56	56	60	b. cy.	cumu	3	S.
2	7	3	63.6	"	S.W. by W.	4			30.11	60	56	56	60	"	"	3	"
3	5	1	70.8	West	West	4			30.11	60	58	56	60	"	"	4	"
4	6	5	78.0	W. N.W.	"	3			30.11	60	58	56	60	"	"	4	"
5	7	5	85.5	"	N.W.	3			30.07	60	58	54	59	b.c.	cir. cumu & Strs	5	"
6	3	4	88.9														
	5	2	94.1	N.W. by N.	N.N.W.	2			30.04	59	54	54	59	b.cy.	cir cumu	2	"
7	8	8	2.9	"	North	2-3			30.10	58	56	56	59	"	"	4	"
8	8	7	11.6	"	"	2-3			30.10	58	56	56	57	"	"	4	"
9	8	3	19.9	"	N.N.W.	2-3			30.11	58	56	56	54	"	"	5	"
10	8	4	28.3	North	"	0-1			30.12	58	56	56	54	"	"	5	"
11	8	5	36.8	"	Calm	0			30.11	58	56	56	53	"	"	5	"
Noon.	10	2	44.0	"	"	0			30.09	59	56	56	53	"	"	4	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

09.1034

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1840 "

Coal consumed during the preceding 24 hours, 14 tons 360 lbs.

Coal remaining on hand at Noon, 60 " 896 "

P. M.												
1	8	8	55.8	N.N.E. ½ E.	N.E.	2	30.04	58	56	56	b.cy. cir cumu	3	S.
2	8	2	64.5	"	"	2	30.01	58	56	56	"	"	3	"
3	6	5	71.0	N.N.E. ¼ E.	"	2	29.99	58	56	56	"	"	3	"
4	Standing in for			W. by S.	S.W.	2	29.96	60	58	54	"	"	3	"
5	Anchorage.			"	"	1	29.98	60	58	54	"	"	4	"
6				S.W.	"	1	29.98	60	58	54	"	"	4	"
7				North	West	1	29.97	60	57	53	"	"	4	"
8				N. by E.	"	1	29.96	60	57	53	"	"	5	"
9				North	W. N. W.	0-1	29.97	61	60	53	b.cu	"	4	"
10				N.W. by N.	West	0-1	29.97	61	60	54	"	"	4	"
11				W. by N.	"	0-1	29.97	60	60	53	b.cl.	"	2	"
Mid.				West	"	0-1	29.97	60	60	53	o.cl. cum & mich		0	"

under the command of Commander J. F. Green, U. S. Navy,
Wednesday April 6th, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.

Generally clear and pleasant. Kept the W. Hogsgate steering the gentle breeze from West. & S.W. by W. At 1 to sighted Cuba Mistake Light bearing (per) W. by N. At 2.15 changed course to West. At 2.30 lost sight of Cape Cuba Light bearing (per) N. E. by N. At 3.00 changed course to W. by W. Cuba Mistake Light bearing N. by E. At end of watch Light house E. by E. Under steam alone.

J. M. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.

Mild hazy & damp. Light to gentle breeze from N.W. to N. N. E. Sea smooth. At 5.25 changed course to N. W. by N. Cuba Mistake Light bearing E. by S. just visible. At 5.30 Tamahe Point bore E. by S. At 7.25 set fore & aft sails.

C. Galloway
Asst. Eng. U. S. N.

From 8 A. M. to Meridian.

Hazy weather. Light to gentle breeze from North. Light airs to gentle breeze from N. N. W. & calms. Standing up Rii Channel. At 9 Tsinanaki steam. Changed course to North. At 12 Tsimangai Cuba Light House bore East. Changed course to N. N. E. ½ E. Under steam alone. At 9.30 unshipped at quarters. Exercised at fighting 1st, 2d & 3d divisions, Great Guns, Navigators, Sig. Stations, Tender to Anchor in Harbour. Finished Spar.

Asst. Eng. U. S. N.

From Meridian to 4 P. M.

Weather hazy. Light airs from N. E. until last hour when light airs from S. W. At 12.15 exchanged numbers with U. S. S. "Nipsic". "Nipsic" made signal 464. At 3.15 anchored in Kobe Harbor with port anchor in 5 fms of water veering to 30 fms in chain. Sent an officer to visit the U. S. Vessel. Draft of ship. Fwd 13 ft. Aft 15 ft. Banked fires.

Ensign U. S. N.

From 4 to 6 P. M.

Partly clear with cirro cumulus clouds. Hazy. Light S.W. airs. U. S. Vessel at Kobe paid an official visit to the ship & was received with customary honors.

J. H. C. Coffman
Ensign U. S. N.

From 6 to 8 P. M.

Clear & calm. Bright moonlight.

From 8 P. M. to Midnight

J. M. Hoggatt
Ensign U. S. N.

Mild damp & hazy. Calms & light airs from West. Light rain latter part. At 8 hauled fires in boilers 1 & 3 to repair leak at 9 started fires in boilers 1 & 3.

C. Galloway
Asst. Eng. U. S. N.

Examined and found to be correct.

A. V. Wadham. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Anchor off Kobe

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				W. by S.	West	1			29.955	60.53				b.c.d.	cum & nim	0	S
2				S.W. by S.	S.W.	1			29.935	60.52				"	"	0	"
3				W. by W.	"	1			29.915	60.53				"	"	0	"
4				S.W. by S.	W. by W.	1			29.905	60.52				b.c.	"	0	"
5					"	1			29.895	60.52				"	"	0	"
6	4	2	4.2	Standing out through Akashi Straits	"	2			29.868	60.51				"	"	0	"
7	8	3	12.5	W. by W.	West	2			29.842	60.51				"	"	0	"
8	6	9	21.6	W. by W. 1/2 W.	"	2			30.02	60.51				b.c.	"	2	"
9	8	7	30.5	W. by S.	W. by N.	1			29.985	60.52				"	cir. cum.	9	S
10	7	9	38.4	W. by S.	"	2			29.985	60.52				"	"	8	"
11	3	4	42.2	W. by N.	"	2			29.965	60.50				"	"	8	"
Noon.	9	3	56.2	N.W. by W. 1/2 W.	"	2			29.968	60.53				"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1480 "

Coal consumed during the preceding 24 hours, 2 tons 2090 lbs.

Coal remaining on hand at Noon, 62 " 1046 "

P. M.												
1	8	8	64.0	W. by W. 1/2 W.	W. by S.	2	29.946	60.54	b.c	cir	8	S
2	6	8	72.8	W. by W.	"	2	29.946	60.54	"	cir cum.	8	"
3	8	5	81.3	S.W. by W. 1/2 W.	"	2	29.96	60.54	b.c.m.	"	2	"
4	4	5	89.8	W. by W.	S.W.	2	29.96	60.55	"	"	8	"
5	6	8	96.6	W. by W. 1/2 W.	West	2	29.96	61.56	"	"	8	"
6	8	6	104.2		"	2	29.96	61.55	"	"	8	"
7	3	8	11.0	Standing in for Anchorage	South	2	29.94	60.56	"	"	2	"
8				W. by S.	"	2	29.98	61.56	"	"	8	"
9				West	N. by W.	1	30.00	60.56	b.c.	"	0	"
10				"	"	1-2	30.01	60.56	"	"	0	"
11				"	N. W.	1	30.01	60.56	b.c.	"	0	"
Mid.				Swinging	North	1	29.98	61.56	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday April 1st, 1858.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to Midnight

Commences and Cuttie A. M.

Overcast with drizzling rain. Light airs from West & SW.

P. B. Wallace
Lieut U. S. N.

From 4 to 8 A. M.

Weather cloudy with light airs from West & W. by N. At 5m got underway & steamed out of the harbor. Standing for & through Akashi Straits until 6 30 when set course W. SW. at 7 ft. changed course to W. SW. ½ W. PZ. 19.4 Under steam alone. Draft of ship fwd 13 feet, aft 15 feet.

A. F. Devereux
Ensign U. S. N.

From 8 A. M. to Meridian

Clear and pleasant with light air. cum clouds. Light airs to breeze from W. by N. Steaming thro straits to S. & W. of Sarwa Bosa in charge of Quarter Officer. Strong head tide. Under steam alone. Smooth sea with frequent heavy tide rips. Course changed to keep channel. Sent to quarters for inspection at 10 A. M. Drafts as follows. Fwd Magazine Sick, 3 & 5 feet, Aft Magazine, Same Aft Engineers Stores, Same Aft

N. C. Bonnycastle
Ensign U. S. N.

From Meridian to 4

Clear and pleasant. Light breeze from W. by S & SW. Steaming through Inland Sea in charge of Quarter Officer. Strong head tide. Smooth sea with frequent heavy tide rips first two hours. Course changed to suit channel.

P. B. Woggett
Ensign U. S. N.

From 4 to 6 P. M.

Fair cool & hazy. Calms & light airs from West. At 6m Takaikoyu Island bore North, distant ½ mile. Standing to W. Commanding Officer coming the ship. Course at 6 W. by S.

E. D. Galloway
Lieut U. S. N.

From 6 to 8 P. M.

Clear pleasant weather. Light breezes from West & South. Standing for anchorage. Called "Bring ship to anchor" at 6.19. At 6.50 came to with port anchor in the Hi-achi Belt in 10 fms water, bottom sand. Veered to 30 fathoms chain. Banked fires. Bearings at anchor Take-suma W. by N, Kadji South. Draft fwd 13 feet, aft 15 feet.

P. B. Wallace
Lieut U. S. N.

From 8 P. M. to Midnight

Cloudy with light airs from N. W. Flood tide. At 11 30 ship began to swing.

A. F. Devereux
Ensign U. S. N.

Examined and found to be correct.

T. T. Jewell
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor in the Inland Sea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				E by N.	North	1			30.00	62	65	64		b.cu.	cu-cum.	4	9
2				East	"	1			30.00	62	65	65		"	"	2	"
3				"	"	0-1			29.99	62	65	65		"	"	3	"
4				"	Calm	0			29.99	62	65	65		"	"	3	"
5			11.0	N. E.	"	0			29.95	62	65	65		"	"	3	"
6	5	0	16.0	Feeling Underway.	W. by W.	1			29.96	62	65	65	63	"	"	4	"
7	9	5	25.5	"	W. by W.	1			29.99	62	65	65	63	"	"	6	"
8	9	9	35.4	SW.	"	1			30.00	59	65	65	63	"	"	6	"
9	8	8	44.2	SW. by W.	SW.	1			30.00	60	65	65	63	"	"	4	"
10	2 4	0 6	53.8	SW. by W.	"	2			30.00	60	56	65	63	b.c.	"	4	"
11	9	2	63.1	"	"	2			30.00	60	58	56	63	"	"	8	"
Noon.	5	2 0	73.3	W. by W.	"	2			30.00	60	58	56	63	b.	nmc	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

24.1033

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1120 "

Coal consumed during the preceding 24 hours, 12 tons 820 lbs.

Coal remaining on hand at Noon, 39 " 466 "

P. M.														
1	9	5	81.8	W. by S.	W. by W.	1			29.95	61	59	56	b.cy.	cum	9	9
2	2 3	6 4	84.4 89.0	W.N.W. by N.	W. by S.	0-1			29.91	62	59	56	"	"	9	"
3	1	4	91.4 93.0	W. by W. 1/2 W.	S. E.	1-2			29.88	64	60	56	"	"	9	"
4	2 5 1	5 6 4	103.4 108.0 110.4	N.W. by W. 1/2 W. W.N.W. 1/2 W.	"	2			29.86	64	60	56	b.cy.	nmc	10	"
5	9	3	20.0	"	South	2			29.85	64	62	58	clr.	"	10	"
6	9	5	29.5	"	W. by N.	2			29.86	63	61	59	b.cum.	cu-cum	8	"
7	8	4 6	30.9 39.5	N.W. 1/2 W.	W. by W.	2-3			29.83	63	62	59	b.cum.q.	cu-nim	5	"
8			40.0	Steaming in for an Anchorage. Ship's Head SW.	SW.	2-3			29.82	64	62	59	"	"	8	"
9					"	3-4			29.86	64	62	58	b.cy.	cum-nim	2	"
10				W. by S.	East	3-4			29.84	63	62	58	b.c.	"	2	"
11				East	"	3-4			29.88	63	61	59		"	8	"
Mid.				W. by N.	"	4			29.89	63	61	59	b.cy	cum	5	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday April 8th, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.

Cloudy & cool. Bright moonlight. Clouds cir. cum. Light airs from N.E. part last hour, when calms. Heading to ebb tide. No current. Started fires in boilers 2 hrs at 12 o'c.

H. C. Poundstone
Ensign U. S. N.

From 4 to 8 A. M.

Cloudy & hazy. Calm first two hours. Light airs from W.N.W. & W.S.W. last two hours. At 4.35 turned engines over. At 4.58 called all hands up, anchor & at 5.7 got underway & stood through Inland Sea under charge of the Cond'g Officer. Draft fwd 13.5 aft 13.5

W. B. Hoggatt
Ensign U. S. N.

From 8 A. M. to Meridian.

Hazy and pleasant. Light airs from S.W. Standing to the W. through Inland Sea. Cond'g Officer conning the ship. At noon High Island bore N.N.E. distant 500 yards. At 9 o'c. Exchanged colors with German steamer General Werder, she passing us, also, bound East. At 9.30 mustered at quarters. Exercised Boat's in Revolvers, & Div. in Single Sticks. 2d. Div. in Pistols. 3d. Div. in Gun & Pivot Stations.

C. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Hazy & pleasant weather. Light airs from W.by S. & W.S.W. Light to a gentle breeze from S.E. and Calms. Standing out of Inj. Nada for Suya Nada. Changed course at 12.03 to W.by S. At 1.12 to W.by N. At 1.45 to W.N.W. 3/4 W. At 2.10 to W.N.W. & W. At 3.15 to N.W. by W. 1/2 W. At 3.50 to W.N.W. 1/2 W. At 4.12 Ya Jima bore, abeam N.by W. At 3.40 Hime Jima bore W. by S. distant 1 1/2 miles. Smooth sea. Sighted a barquentine & steamer standing to E.S.E.

T. F. Jewell
Lieut U. S. N.

From 4 to 6 P. M.

Weather misty. Warm. First half of watch light breeze from S.S.W. last half from W.by N. Course W.N.W. 1/2 W. Under steam alone.

A. Mackay
Ensign U. S. N.

From 6 to 8 P. M.

Partly clear cool. Hazy. Clouds cir cum & cumul. Moderate to stiff breeze in squalls from W. to W.S.W. shifting to S.W. last hour. Barometer falling. At 6 o'c. went to Fire Quarters. All reads in 1 fm. Sounded in 2 1/8. At 6.20 sighted Isaki Light House bearing N.W. 1/2 N. Steamed in for, an anchorage in charge of Cond'g Officer. At 7 o'c. anchored in 6 1/2 fms water, veering to 60 fms in port chain. Draft of ship fwd 12 9 aft 14.9. Have banked fires in all boilers. Bearings at anchor: Isaki Light N. 3/4 W. Kitaku, west.

H. C. Poundstone
Ensign U. S. N.

From 8 P. M. to Midnight

Clear & pleasant. Light to moderate breeze from S.W. & West in squalls first three hours. Moderate breeze last hour from west. Commenced artilleries.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

A. W. Graham Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor in the Island Sea.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				W. N. W.	W. by. N.	4			29.82	61	54	51		b. c. q.	cir cum	8	S
2				N. W.	W. N. W.	4-6			29.92	60	55	50		"	"	8	"
3				N. W. by. W.	"	3-6			29.92	60	54	49		"	"	8	"
4				W. by. N.	"	3-5			29.94	59	54	48		"	"	9	"
5				W. by. S.	West	2-6			30.00	58	54	48		b. c. q.	c. m.	10	"
6				S. W.	"	2-5			30.03	56	53	48		b. c. q.	cir cum	8	"
7				S. W. by. S.	"	2-4			30.03	58	53	49		"	"	8	"
8				"	"	2-4			30.04	58	54	50		"	"	8	"
9				"	N. W.	2			30.06	58	55	50		b. c. m.	"	8	"
10				W. N. W.	"	3			30.08	58	56	49		"	"	8	"
11				W. by. N.	W. by. N.	2			30.10	59	58	50		"	"	8	"
Noon.	Getting underway				"	3			30.09	60	58	50		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 1240 "

Water remaining on hand fit for use at Noon, 2000 "

Coal consumed during the preceding 24 hours, 10 tons 1240 lbs.

Coal remaining on hand at Noon, 37 " 196 "

P. M.														
1	Steaming thro' out of Shimonoseki Straits				N. W.	2	30.05	60	55	54	b. w.	n. m.	10	S
2			41.0	do	"	2-3	30.11	60	56	54	"	"	10	"
3	3	6	44.6	W. by. W. 3/4 W.	W. N. W.	3	30.09	60	56	54	"	"	10	"
4	6	1	50.7	"	"	3	30.09	60	56	54	"	"	10	"
5	6	0	56.7	"	"	2	30.06	62	56	54	"	"	10	"
6	2	2	60.0	W. by. S.	"	1	30.06	61	59	54	"	"	10	"
7	5	8	68.6	W. by. S. W.	b. calm	0	30.06	60	59	54	"	"	10	"
8	5	9	74.3	S. W. by. W. 3/4 W.	S.	0	30.02	60	58	54	"	"	10	"
9	2	6	54.8	S. W. by. W. W. by. W. 3/4 W.		0-1	30.08	61	60	54	"	"	10	"
10	1	1	92.5	"	"	1-2	30.10	61	59	55	"	"	10	"
11	1	3	99.8	"	"	2	30.02	61	59	55	8	"	10	"
Mid.	1	2	104	"	"	2	30.05	61	59	56	58	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday April 9th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A.M.

Clear, mild & pleasant. Stiff breze with fresh squalls from W.N.W. moderating towards close of watch. Bright moonlight.

L.D. Galloway
Lieut U.S.N.

From 4 to 8 A.M.

Clear, cool weather. Light to moderate breezes from west with stiff to fresh squalls at short intervals. Fires banked. Distilling.

D.E. Wadleigh
Lieut U.S.N.

From 8 A.M. to Meridian.

Clear & pleasant. Gentle breze from N.W. & W. by N. At 11h called all hands and got underway. Steamed through the Straits of Simonoseki with Grand'g Officer in charge. Sent down topgallant yards. Draft of ship fwd 13'.9", aft 14'.9".

A.F. Ledyard
Ensign U.S.N.

From Meridian to 4 P.M.

Clear bright & pleasant. Hazy over the land. Light to gentle breze from N.W. & W. to N.W. Steaming thro' out of Shimonoseki Straits to the W. At 1.52 cut off boilers 6 & 8 and hauled their fires. At 2.30 took departure, Round Rock off N. Tsu Shima bore (p.c.) S. by E. 1/4 E. distant 1/2 mile P.L. 4 1/3. Set course W.S.W. 3/4 W. & steered that to end of watch. At 3.30 sighted Tsu-shima Islands bearing about N.W. by W. Land in sight astern & on port bow & beam, at end of watch.

W.T. Pomeroy
Ensign U.S.N.

From 4 to 6 P.M.

Clear bright & pleasant. Light airs & breze from N.W.b.N. at end of watch land in sight astern & on port bow & beam. Tsu-shima Islands on starboard beam. Commenced distilling.

W.B. Haggott
Ensign U.S.N.

From 6 to 8 P.M.

Clear mild & pleasant. Calms & light variable airs. Smooth sea. At 6.5 changed course to W.S.W. Yobosi Light sighted at 6.5 bearing (p.c.) W.S.W. At 7.20 changed course to S.W. by W. 3/4 W. patent log reading 41.5 at 7.50 went ahead full speed using four boilers. At 8.0 Yobosi Light bore W.S.W. distant 6 miles. Tsu-shima N. by W. 1/2 W. dist 8.1 miles.

L.D. Galloway
Lieut U.S.N.

From 8 P.M. to Midnight

Misty cloudless weather. Light airs & breezes from S.E. & calms. At 8.19 changed course to S.W. 1/2 W. At 8.40 Yobosi Light House bore abeam, distant 1.3 miles. Changed course to W.S.W. 3/4 W. At 10.00 slowed to forty revolutions & at 11.17 to thirty-eight. At 10.40 sighted Futakuma & Akuseki no O-shima. At end of watch Futakuma bore N.N.W. 1/2 W. Akuseki no O-shima S.W. & Nadara Sima East. At 11.30 lost sight of Yobosi Light House bearing E.N.E. 1/2 E. Under steam alone.

D.E. Wadleigh
Lieut U.S.N.

Examined and found to be correct.

A.V. Madison
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

On Surveying passage to Nagasaki.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	0	140	W. SW. 3/4 W.	SW.	2			30.08	60	58	54	58	bcu.	cir	4	S
2	6	4	20.4	SW. by S.		2			30.07	60	54	54	58	"	"	4	"
3	7	3	27.7	"	S. by W.	2			30.05	60	58	55	58	"	"	4	"
4	7	9	34.8	S. by W.	S. by E.	2-3			30.06	60	58	55	58	"	"	5	"
5	6	4	40.2	S by E 3/4 E.	S. E by S.	2			30.05	60	59	55	58	bcu.	cir cum.	4	"
6	7	9	47.1	S. S. E 1/2 E.	"	1-2			30.05	60	59	56	59	"	"	6	"
7	8	0	55.3	"	"	2-3			31.07	61	60	56	59	"	"	6	"
8	6	2	61.5	S. S. E 3/4 E.	"	3			30.08	63	61	54	59	"	"	6	"
9	8	5	69.6	"	"	2			30.12	64	62	54		"	"	2	"
10	9	5	74.6	S. E. 3/4 S.	"	2			30.12	66	65	58		"	"	8	"
11	Standing in for an anchorage			S. E. 1/2 E.	S. E.	2			30.11	68	67	59		"	"	2	"
Noon.				SW.	E. S. E.	1			30.09	69	68	61		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 1160 "

Water remaining on hand fit for use at Noon, 2800 "

Coal consumed during the preceding 24 hours, 10 tons 1850 lbs.

Coal remaining on hand at Noon, 18 " 586 "

P. M.												
1	S by W.	S by W.	3-4	30.04	64	63	63	bcu	cir cum	6	S
2	S SW.	"	4-5	30.04	64	63	63	"	"	5	"
3	"	"	2-3	30.02	64	63	63	bc	cumulus	2	"
4	S by W.	"	2-3	30.00	64	62	61	"	"	2	"
5	"	"	2	30.00	64	62	61	"	"	4	"
6	"	"	2-3	29.98	64	62	61	"	"	4	"
7	"	"	3	29.92	64	62	63	"	"	5	"
8	South	"	3-4	29.90	64	62	63	bc	"	0	"
9	S by W.	S SW.	2-4	29.90	64	62	62	bcdg	"	0	"
10	South	South	3-5	29.90	64	62	62	bcdg	cumul	0	"
11	S SE.	"	3-5	29.86	66	62	62	"	"	0	"
Mid.	S E.	"	3-5	29.81	68	66	62	"	cum/cirl	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday April 10th, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A.M.

Partly cloudy & slightly misty. Moonlight. Light breze from S.W. to S.S.E. under steam all the. At 3.50 stopped distilling. At 4.15 changed course to S.W. by S. P.C. 204. At 3.30 changed course to S. by W. P.C. 30.1. At end of watch land in sight on both sides.

From 4 to 8 A.M.

Ensign U.S.N.

Partly clear with cir. cum clouds. Hazy around the land. Light airs to gentle breze from S.E. by S. Smooth sea. At 4.40, changed course to S by E. 3/4 E. P.C. 40.2. At 4.50 commenced hove three boilers for steaming & went ahead fast. At 5.30, changed course to S.S.E. 1/2 E. P.C. 40.4 & 1/10 of S.S.E. 3/4 E. P.C. 58.5. Steaming thro straits for Nagasaki. At 7.58 changed to S.E. 3/4 E. P.C. 65.2.

Ensign U.S.N.

From 8 A.M. to Meridian

Clear, warm & pleasant. Light breze & airs from S.E. by S. & E.S.E. At 9.15 crossed top-gallant yards. 9.20 changed course to S.E. 3/4 S. At 9.45 to S.E. 1/2 E. At 10.12 called all hands & bring ship to anchor & at 10.30 let go port anchor in 9 fms water. Veered to 45 fms on port chain in Nagasaki Harbor. Bearings at anchorage (p.c.) Nagasaki Point S.W. by W. 1/2 W. Steam Factory N. by W. Bunker Isles. Exchanged salutes with U.S. Steamers "Omaha" & "Palos". Sent officer to call on U.S. Consul. Received official visits from the U.S. Consul & Consular Officers of the "Omaha" & "Palos". Received boarding visit from Russian Gunboat. Draft of ship fwd 16' 6", aft 16' 6".

Ensign U.S.N.

From Meridian to 4 P.M.

Cloudy hazy & warm. Light to moderate breze from S.W. with stronger puffs. Sent an officer to pay official visit to Russian Gunboat. At 2.00 moored ship to 5 fathoms on each chain. At 2.30 Consular Officer left the ship to pay officers visits to Russian Gunboat, U.S.S. "Omaha" "Palos".

Asst Surgeon U.S.N.

From 4 to 6 P.M.

Partly cloudy weather. Light to gentle breezes from S by W. Fires banked

Decks clear

Asst U.S.N.

From 6 to 8 P.M.

Cloudy with gentle to moderate breze from S by W.

Ensign U.S.N.

From 8 P.M. to Midnight

Overcast cloudy & squally. Drizzling 1st hour, raining afterwards. Gentle breze from S.S.W. & South, increasing to stiff breze in moderate squalls. Riding to port anchor.

Ensign U.S.N.

Examined and found to be correct.

Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Nagasaki

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S by E.	S.W.	3-5			29.42	68	65	62		b.cr.cf.	cum.nimb.	0	S
2				S"	South	3-6			29.43	68	64	62		b.cf.	"	0	"
3				South	"	3-6			29.40	68	64	62		" N	"	0	"
4				S by E	"	3-6			29.38	68	64	63		"	"	0	"
5				S"	"	3-6			29.36	68	64	64		"	"	0	"
6				South	"	3-5			29.38	68	66	63		"	"	0	"
7				S	"	3-5			29.40	68	66	64		"	"	0	"
8				S.W.	S.W.	3			29.40	68	66	64		"	"	0	"
9				W. S.W.	S.W. by S.	2			29.40	68	64	64		"	"	0	"
10				S.W.	S.S.W.	2			29.42	69	66	66		"	"	0	"
11				S.S.W.	"	2			29.40	69	64	65		"	"	0	"
Noon.				W. by W.	"	2			29.40	70	66	65		o.c.f.d.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2440 "

Coal consumed during the preceding 24 hours, tons 166 lbs.

Coal remaining on hand at Noon, 17 " 1166 "

P. M.																	
1				W. S.W.	S.W.	2			29.36	70	64	66		o.c.f.d.	cum.nimb.	0	S
2				W. by W.	W. S.W.	2			29.38	70	64	66		"	"	0	"
3				S.W.	"	2			29.38	69	65	64		o.c.f.	"	0	"
4				S.W. by W.	"	2			29.38	68	65	64		" d	"	0	"
5				W.S.W.	"	2			29.38	69	66	65		"	"	0	"
6				S.W.	S.W.	2			29.40	69	66	65		o.c.f.	"	0	"
7				S.W. by W.	Calm	0			29.38	69	64	66		"	"	0	"
8				S.W. by S.	"	0			29.38	68	64	66		"	"	0	"
9				S.W.	"	0			29.36	68	66	65		o.c.f.r.	"	0	"
10				"	S.W.	1			29.38	68	65	64		o.c.f.r.	"	0	"
11				"	S.W. by S.	1-2			29.42	64	64	63		"	"	0	"
Mid.				W by N.	N.W.	2			29.42	64	64	63		"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday April 11th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A.M.

Overcast & cloudy, raining last hour. Fresh squalls from S.W. & South.

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.

Overcast with constant rain. Fresh breze with squalls first part from South light breze & light rain latter part. Made preparations for coaling. at 7h coal lighters came alongside. at 7½ made dress and time signal. Hawse clear.

T.D. Galloway
Lieut U.S.N.

From 8 A.M. to Meridian

Overcast foggy raining weather. Light breezes from S.W. by S. & S.S.W. Coaling ship. Received during watch 75½ tons. Hawse clear. Ripe hooked

P.H. Darling
Lieut U.S.N.

From Meridian to 4 P.M.

Cloudy with light drizzling rain during most of the watch. at 2h finished coaling having received in all 109½ tons. Received official visit from Comdg Officer of Russian man-of-war.

A.T. Long
Ensign U.S.N.

From 4 to 6 P.M.

Overcast cloudy & raining with fog over land. Light breezes from W.S.W. shifting to N.W. last hour. Moored. Clear hawse

H.C. Poundstone.
Ensign U.S.N.

From 6 to 8 P.M.

Overcast, cloudy and foggy. Calm.

W.B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight

Overcast with light drizzle until 11, then heavy rain during remainder of watch. Hawse clear. Calm & light airs from S.W. Barometer falling.

T.D. Galloway
Lieut U.S.N.

Examined and found to be correct.

D.W. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the Harbor of Nagasaki.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N.W. by W.	N.W.	2-3			29.76	67	62	61		b.cr.	cumu.	0	S.
2				N.W.	"	2			29.76	67	62	61		"	"	0	"
3				"	"	2			29.69	67	62	61		"	"	0	"
4				N.W. by W.	"	3-5			29.70	66	61	59		"	cum. cumu.	0	"
5				"	"	2-5			29.74	65	60	57		b.c.	"	0	"
6				"	"	2			29.79	65	60	56		b.c.	cir. cum.	4	"
7				"	"	2			29.89	64	58	54		"	"	6	"
8				W. by N.	West	2			29.84	63	58	54		"	"	6	"
9				"	"	2			29.84	63	59	54		"	"	5	"
10			80.5	Getting Underway steaming out of Nagasaki Harbor	W. by W.	3			29.90	64	60	54		"	"	5	"
11	2	1	82.6	"	"	4			29.94	65	60	54		"	"	5	N.E.
Noon.	2	2	89.8	S.W.	"	4-5			29.95	65	60	53	62	"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- 29.1032 Latitude by ~~observations~~ Bearings of ⊙ Signal Head Light Tower N. by W. 1/2 W. Dist. 5 1/2 miles. N 32 38' "
- Longitude by ~~chronometer from Forenoon Observations of ⊙~~ Bearings of S. Point Round Island S.E. E 129 40' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by D. R. N 31 52' "
- Longitude by Chro. D.R. Dr Dr E 128 51' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2080 "

Coal consumed during the preceding 24 hours, 2 tons 560 lbs.

Coal remaining on hand at Noon, 124 " 1726 "

P. M.												
1	2	0	96.8	S.W.	W.N.W.	4		29.92	61	59	52	b.cy. cir.	9	N.
2	2	8	104.6	"	W. by N.	4		29.92	62	60	52	" "	9	"
3	2	6	12.2	"	"	3-4		29.93	62	60	53	b.cy. cir. cum.	8	"
4	2	6	19.8	"	"	3-4		29.93	62	60	53	" "	8	"
5	2	2	24.0	"	N.W.	4-6		29.94	62	59	52	" "	8	"
6	8	1	35.1	"	N.W. by N.	6-5		29.94	63	58	52	" "	8	"
7	8	4	43.8	"	"	3-5	1/4	29.96	62	57	51	" "	8	mk.
8	9	1	52.9	"	W.N.W.	3-5	1/4	29.98	62	58	51	" "	9	"
9	9	2	62.1	"	W.	2-4		30.00	62	58	51	" "	9	"
10	9	0	71.1	"	"	2-4		30.02	61	59	51	" "	8	"
11	8	9	80.0	"	"	3-4		30.03	61	59	52	" "	9	"
Mid.	9	2	89.2	"	"	3-4		30.05	61	59	52	" "	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday April 12th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.
Cloudy, rainy & squally. Winds from N.W. light to fresh.
A. F. Keighley
Ensign U. S. N.

From 4 to 8 A. M.
Overcast & cloudy first hour then clear remainder of watch. Gentle to moderate breeze from N. W. to West. At 7:30 made quest & time signal.
D. T. Wadleigh
First Lt U. S. N.

From 8 A. M. to Meridian.
Partly clear with cir. cumu clouds. Bright. Hazy near the land. Light breeze from West 1st hour shifting to W. N. W. in gusts to stiff breeze. Moderate sea from N.W. with long S.W. swell. At 8 A. M. S. S. "Palos" made Int 4886. answered 904. At 8:40 A. M. S. S. "Omaha" made Int 5455. Answered 904. At 8:55 answered ship. Got ready for sea. At 9 A. called all hands up anchor. Turned engines over & found them ready. At 9:05 got underway & steamed out of Nagasaki Harbor in charge of Grand Officer. Went to quarters for muster & secured battery for sea. Tried magazine & shell room flood cocks & found them in good order. At 9:25 send down Fore & Aft Yards & hoist Fore & Aft Sails. At 10:35 shut down P. & spreading Sails. set fore & aft sail & foresail at 11 A. M. At 11:05 took departure. Signal Head Light in Iwo Sima bearing S.E. by S. distant 7 miles. P. L. & S. Set course S.W. Draft of ship, fwd 14 feet aft 16 feet. At end of watch in course & vessel under steam & fore & aft sail & foresail Iwo Sima Lt. bearing (p.c.) N.E. 3/4 E.
H. C. Armstrong
Ensign U. S. N.

From Meridian to 4 P. M.
Gradually clear. Hazy about horizon. Squally. Gentle breeze to moderate breeze squally from W. N. W. & W. by N. At end of watch in course S.W. under steam and fore & aft sail & foresail.
W. B. Haggatt
Ensign U. S. N.

From 4 to 6 P. M.
Clear hazy & pleasant. Moderate to stiff breeze from N.W. & N.W. by N. At 5:00 set topsails & crossed t'gallant yards. Sea moderate with occasional swell.
C. D. Galloway
Lieut U. S. N.

From 6 to 8 P. M.
Clear, cool weather. Gentle to fresh breeze from W. N. W. At 6:10 set t'gallant sails at sunset. mustered at quarters. Eng & Hull from N.W. Ship pitching & rolling easily. At end of watch under steam & mainsail to t'gallant sails (save mizzen sail) Fore Foremast Trysail & Main Trysail. Barometer rising.
D. T. Wadleigh
First Lt U. S. N.

From 8 P. M. to Midnight
Clear & pleasant. Light to moderate breeze from N.W. Moon rose at 11:55. Under steam & main sail to t'gallant sails except mizzen sail. Course S.W. Moderate sea. Ship rolling & pitching easily.
A. F. Keighley
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut
Navigator.

LOG of the UNITED STATES Steamer "Taku", 3d Rate,

At Sea making passage to Formosa

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	8	9	98.1	SW.	NW by W.	3-4			30.02	61	59	51	66	b c	cir cum	4	N-b
2	9	0	107.1	"	"	3-4			30.02	61	59	51	64	"	"	4	"
3	8	6	115.7	"	"	3			30.01	61	59	51	67	"	"	4	"
4	7	8	123.5	"	"	3			30.02	61	59	51	66	"	"	4	"
5	7	2	130.7	"	W by SW.	1			30.03	61	60	52	68	"	"	9	SE
6	7	1	138.8	"	SW.	1			30.04	62	60	53	69	"	"	9	N
7	7	2	145.0	"	"	1			30.06	62	60	53	70	"	"	9	"
8	7	2	152.0	"	"	1			30.06	62	61	54	70	b	nme	10	S
9	6	8	159.0	"	S by SW.	1			30.09	63	62	56	70	b cu	cu-cum	8	"
10	7	5	166.0	SW by W.	"	2			30.11	64	63	59	70	"	"	6	"
11	8	8	174.8	"	"	3-4			30.09	64	63	62	65	"	"	6	"
Noon.	7	2	182.0	"	"	3-4			30.06	65	64	63	64	"	"	7	"

Course and distance made good since preceding noon by observations, SW ¼ S 12¼ knots tenths.

Position at Noon:
- Latitude by D. R. — N 30 ° 19' "
- Longitude by D. R. — E 122 ° 06' "
- Latitude by observations of ⊙ — N 30 ° 21' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 122 ° 30' "

09.1032

Position at 8 a. m.
- Latitude by DR — N 30 ° 41' "
- Longitude by Chro DR DR DR — E 122 ° 54' "

Position at 8 P. M.
- Latitude by DR — N 29 ° 46' "
- Longitude by Chro PM DR DR — E 126 ° 36' "

Current during the time, knots 8 tenths per hour, setting to the E ½ N

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 7 39 " SW W 2 ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 17 20 "

Coal consumed during the preceding 24 hours, 10 tons 130 lbs.

Coal remaining on hand at Noon, 14 " 1596 "

	P. M.	Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
		1	7	1	89.1	SW by W.	S by W.	3			30.05	66	64	63	63	b cu.	nme	10	S
		2	7	5	96.6	"	"	3-4		1/4	30.02	66	64	64	63	"	"	10	"
09.1052		3	7	8	104.4	"	"	4		1/4	30.00	66	65	65	63	"	"	10	"
N30		4	7	8	12.2	"	"	4		1/4	29.98	66	65	60	62	b cu.	cir cum	4	"
126.58		5	7	1	19.3	"	S by E.	3-4		1/4	29.97	66	65	60	63	b c.	"	7	"
		6	7	1	26.4	"	"	3-4		1/4	29.92	66	65	61	63	"	"	7	SE
		7	6	8	33.2	"	"	3-4			29.92	67	66	62	63	c	cum-nmb	0	"
		8	6	7	39.9	"	"	3-4			29.92	67	65	62	63	"	"	0	"
		9	6	3	46.2	"	S by W.	3			29.92	67	65	62	63	b cu.	"	0	"
		10	6	3	52.5	"	"	3			29.94	67	65	63	62	b cf.	"	0	"
		11	6	2	58.7	"	"	3-5			29.92	67	66	63	62	b cgr.	"	0	"
		Mid.	6	0	64.7	"	"	5			29.89	67	66	63	62	"	"	0	"

under the command of Commander T. Stowell, U. S. Navy,
Wednesday April 13th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A.M.

Partly clear with light cirrus clouds. Bright moonlight. Gentle to moderate breeze from N.W. by W. Ship rolling moderately to heavy N.W. swell. Moderate sea. On course S.W. under steam & plain sail to topgallant sails & occasionally

T. F. Hunt
Ensign U.S.N.

From 4 to 8 P.M.

Clear & pleasant. Light to variable airs from W.S.W. & W. Log-board from N.W. decreasing rapidly. Took in & furled all sails. At end of watch on course S.W. under steam alone.

W.B. Hoggatt
Ensign U.S.N.

From 8 A.M. to Meridian

Clear, hazy & warm. Light breeze from S.W. hauling to South & increasing to a moderate breeze. At 9:1 changed course to S.W. by W. P.L. 6 k. 5. At 9:30 quarters. Exercised 1st, 2d & 3d divs Great Guns; Masters Stations; Powder & Machine Guns. At 10:0 set fore & aft sails except flying jib. At noon bent & set flying jib. At 10:30 exercised Apprentices of starboard watch at signals (A & N. Code). Sea smooth. Shifted Main Topsail Clewlines & Halliards end for end.

E. H. Gheen
Asst. U.S.N.

From Meridian to 4 P.M.

Hazy weather. Gentle to moderate breeze from S. by W. At 1:20 set foresail. Exercised Signal Class of watch below. Served out small stores. Sea smooth. At end of watch, on course S.W. by W. under steam, foresail & fore & aft sails. Taking barometer. Inspected arms, gun cotton: found it in good condition.

D. F. Wareing
Asst. U.S.N.

From 4 to 6 P.M.

Cloudy. Gentle to moderate breeze from S. by E. under steam, fore and aft sails & foresail. Course S.W. by W.

A. J. Conroy
Ensign U.S.N.

From 6 to 8 P.M.

Cloudy & pleasant. Clouds cumulus. Gentle to moderate breeze from S. by E. Moderate sea & swell from South. Ship under steam, fore & aft sails & foresail, on course S.W. by W.

H. C. Poundstone
Ensign U.S.N.

From 8 P.M. to Midnight

Overcast. Cloudy, misty, rainy & squally, breaking last half hour. Gentle to stiff breeze from S. by W. Moderate sea from South. Took in flying jib & foresail. On course S.W. by W. under steam & fore & aft sails at end of watch.

W.B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

A. V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Ying", 3d Rate,

At Sea making passage to Formosa.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	3	41.0	S.W. by W.	South	3-5			29.92	68	62	60	62	o.cqpw	cum cirrus	0	
2	6	3	47.3	"	"	3-5			29.89	68	62	60	62	.	"	0	"
3	6	5	53.8	"	"	3-5			29.86	68	63	63	62	.	.	0	"
4	6	4	90.6	"	W. S.W.	1-2			29.82	68	65	65	62	"	"	0	"
5	5	4	96.0	"	S.W. by W.	2-3			29.81	66	64	64	62	o cr	.	0	"
6	5	3	101.3	"	S.W. by S.	3-6			29.81	66	64	64	61	.	.	0	"
7	4	8	6.1	"	S.W. by W.	3-6			29.82	64	64	64	60	o.cf	"	0	"
8	5	5	11.6	"	West	3-4			29.83	66	63	62	60	"	.	0	"
9	5	1	16.7	"	W. S.W.	2			29.85	66	64	63	60	o.cdf	cir. cum cumb	0	"
10	5	6	22.3	"	West	2			29.83	65	63	62	60	bc	.	1	"
11	6	6	28.9	"	S.W. by W.	2			29.85	66	64	62	60	.	.	2	"
Noon.	6	1	35.0	"	"	2			29.85	64	64	63	60	"	cir-cum	3	"

Course and distance made good since preceding noon by observations, S.W. by W. 140 knots tenths.

Position at Noon:
- Latitude by D. R. — N 28° 50' "
- Longitude by D. R. — E 125° 10' "
- Latitude by observations of ⊙ — N 29° 03' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 125° 16' "

Position at 8 a. m.:
- Latitude by D.R. — N 29° 17' "
- Longitude by Chron do do do — E 125° 38' "

Position at 8 P. M.:
- Latitude by D.R. — N 28° 34' "
- Longitude by Chro P.M. do do — E 124° 31' "

Current during the time, knots 58 tenths per hour, setting to the N. N. E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water ~~————————~~ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1360 "

Coal consumed during the preceding 24 hours, 10 tons 380 lbs.

Coal remaining on hand at Noon, 104 " 1716 "

P. M.																		
	1	5	9	4.3	S.W. by W.	West	3			29.86	65	63	62	60	o.cfw	cum cirrus	0	
Obs. 1051	2	5	8	46.1	"	"	3			29.85	64	63	62	60	.	.	0	"
N 28.53	3	6	0	52.1	"	W. by N.	3			29.86	63	62	61	60	bcf	"	2	"
	4	6	3	58.4	"	"	3			29.84	63	62	61	60	.	cir-cum	2	"
	5	6	0	64.4	"	S.W. by W.	1			29.86	66	62	62	61	o.cf	cum cirrus	0	"
	6	6	2	70.6	"	"	1			29.84	65	62	62	61	.	"	0	"
	7	6	8	77.4	"	"	1			29.84	65	62	62	61	bcf	"	2	"
	8	6	4	84.1	"	"	1			29.88	65	63	62	61	.	"	2	"
	9	6	4	90.8	"	Sunset	2			29.86	65	63	62	61	o.cf	"	0	"
	10	6	4	97.2	"	"	2			29.86	65	63	62	61	"	"	0	"
	11	6	5	103.7	"	"	2			29.85	65	64	63	61	o.cf.	"	0	"
	Mid.	6	9	10.6	"	"	2			29.84	65	64	63	62	o.cr.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday April 14th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.

Overcast with constant rain. Frequent hard showers. Moderate to stiff breze from South hauling to S.W. & falling calm, then light breze from W. S.W. At 3.25 took in fore & aft sail. Sea moderate to smooth.

C.T. Galloway
Lieut U.S.N.

From 4 to 8 A.M.

Overcast foggy & rainy. Light to fresh brezes from S.W. by W. Light to gentle brezes from S.W. by S. Gentle to moderate brezes from West. Squally. On course S.W. by W. under steam alone. At 7 sent down topgallant yards.

P.T. Harding
Lieut U.S.N.

From 8 A.M. to Meridian

Generally cloudy with occasional light drizzling rain. Light breze from West to S.W. by W. At 9.30 inspected at quarters & instructed 1st & 2d divs at Great Guns. Exercised Apprentices of port watch in signals. Under steam alone.

A.T. Johnston
Ensign U.S.N.

From Meridian to 4 P.M.

Overcast foggy & wet first part, partly clear latter part. Fog lifted at 3.30. Clouds cum. & cir. cum. Gentle breze from West first part, W by N, latter part. Set fore & aft sail at 2.30. At end of watch in course S.W. by W. under steam & fore & aft sail. Served out clothing. Spelled Signals with Apprentices of watch below. Marine Guard had skirmish drill.

A.C. Pownall
Ensign U.S.N.

From 4 to 6 P.M.

Overcast & foggy. Light airs from S.W. by W. At 5.20 took in fore & aft sails. On course S.W. by W.

W.B. Haggett
Ensign U.S.N.

From 6 to 8 P.M.

Overcast & misty. Light airs from S.W. by W. At 6 mustered at quarters. Sea smooth.

C.T. Galloway
Lieut U.S.N.

From 8 P.M. to Midnight

Overcast foggy & cloudy. Rainy last two hours. Light breze from South. Steering a course S.W. by W. under steam alone.

P.T. Harding
Lieut U.S.N.

Examined and found to be correct.

A.T. Mahan Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Formosa.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	4	180	SW by W.	West	1			29.81	65	63	63	62	b c f	Cum cumb	0	N
2	7	5	255	"	SW by W.	1			29.80	65	63	63	62	"	"	0	"
3	7	5	330	"	West	1			29.79	65	63	63	62	b c r	"	0	"
4	7	3	40.3	"	WNW.	3			29.78	65	63	63	62	"	"	0	"
5	7	6	74.9	"	WbyN	2-3			29.80	65	63	63	62	"	"	0	"
6	7	0	54.9	"	WNW	2			29.80	65	63	63	64	"	"	0	"
7	6	6	61.6	"	NWbyW	2-3			29.83	65	62	62	64	"	"	0	"
8	7	9	69.5	"	"	3			29.86	65	62	62	64	b c	"	0	"
9	7	3	76.8	"	N E	2-3			29.86	65	63	62	63	b c	Cr cum	2	S
10	8	3	85.1	"	SEbyE	3			29.86	65	62	61	61	"	"	2	"
11	9	7	94.8	"	SE	3			29.84	66	64	63	61	"	"	4	"
Noon.	8	1	102.9	"	SEbyS	1-2			29.84	68	66	65	61	"	"	6	"

Course and distance made good since preceding noon by observations, SW 1/2 W. 159 knots tenths.

Position at Noon:
- Latitude by D. R. — N 24° 23' "
- Longitude by D. R. — E 122° 43' "
- Latitude by observations of ⊙ — N 24° 26' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 122° 55' "

04.1087

Position at 8 a. m.:
- Latitude by D. R. — N 24° 43' "
- Longitude by Chron do do do — E 123° 24' "

Position at 8 P. M.:
- Latitude by D. R. — N 26° 38' "
- Longitude by Chron P.M. do do — E 122° 24' "

Current during the time, knots .5 tenths per hour, setting to the E 1/2 N.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at " — ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 39 " SW by W. — W 2° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water ~~during the preceding 24 hours~~, "

Water remaining on hand fit for use at Noon, 2 or 1 "

Coal consumed during the preceding 24 hours, 10 tons 2000 lbs.

Coal remaining on hand at Noon, 93 " 1401 "

P. M.																	
	7	1	105.0	SW by W.													
1	6	0	10.0	SW by S.	SW by W.	2			29.88	69	64	65	63	b c	Cr cum	6	S
2	7	0	17.0	"	South	1			29.88	70	68	66	66	"	"	4	"
3	7	2	26.2	"	Variable	1			29.88	71	70	68	66	"	"	4	"
4	6	8	34.0	"	SSE	1			29.87	71	70	68	66	"	"	8	"
5	7	8	35.8	"	South	1			29.89	72	70	68	65	"	"	6	"
6	6	7	42.5	"	SE	1-3			29.91	70	68	66	65	"	"	6	"
7	7	5	50.0	"	"	1			29.90	69	67	66	65	"	"	6	"
8	7	5	57.5	"	"	1			29.90	69	67	66	65	b cum	"	8	"
9	7	5	65.0	SSW 1/2 W.	SEbyS	2			29.91	69	66	66	65	" W cum	Str	8	SE
10	7	2	72.2	"	"	2			29.93	69	66	66	65	"	"	8	"
11	7	4	79.6	"	"	2			29.94	68	66	65	66	"	"	8	"
Mid.	7	6	87.2	"	"	2			29.93	68	66	65	66	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday April 15th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A.M.

Foggy first half of watch, then cloudy & rainy. Light airs from S.S.E. to W.S.W. during first three hours, then gentle breeze from W.N.W. at 3a.m. Set fore & aft sail. Course S.W. by W.

C.A. Jewett
Ensign U.S.N.

From 4 to 8 A.M.

Overcast with cumulus & stratus clouds. Continued heavy rain till last hour when clearing slightly but still drizzling. Light to gentle breeze from W. by N. to N.W. by W. at 6a.m. took in fore & aft sail. Set it again at 6.5a.m. At 7a.m. set foresail at end of watch, on course S.W. by W. under steam fore & aft sails & foresail. Smooth sea with long ely swell. Barometer rising.

H. Townsend
Ensign U.S.N.

From 8 A.M. to Meridian

Generally clear & pleasant. Gentle breeze to light airs from N.E. to S.W. by S. At 8.15 made plain sail to top gallant sails. At 11.50 took in all sail. By order of the Comdg Officer confined W. F. Mc. Cullam 2 C.A. on bread & water for three days. Cleared Alexander Campbell, Sea, from confinement, the Comdg Officer having remitted the remainder of his sentence. Exercised Starboard watch of Apprentices at signals for one half hour. On course S.W. by W.

W.B. Haggett
Ensign U.S.N.

From Meridian to 4 P.M.

Fair, sultry & warm. Light & variable winds, aroyned the compass twice during the watch. At 4a.m. light breeze from S.S.E. Light cirrus & cumulus clouds passing about. Gentle swell from S. increasing latter part of watch. Furled square sails. Filled & fuzed 40 IX shell, 5 Sec fuze, 3¼ charge. Exercised Apprentices of port watch at signals (A & N) Code. at end of watch under steam alone, 4 boilers. Course S.W. by S. At 3a.m. exercised Man Overboard, let go both life buoys from boat, detaching apparatus working well. Two slips for boat gripes unsecured & failed to work. Sprint away & fast overboard weight & chain of fast life buoy.

E.E. Galloway
Lieut U.S.N.

From 4 to 6 P.M.

Clear pleasant weather. Light airs from South. Light airs to gentle breeze from S.E. At 4.45 went ahead full speed. At 5.35 set fore & aft sail. Steering a course S.W. by S.

F. Downing
Lieut U.S.N.

From 6 to 8 P.M.

Clear & pleasant. Light airs from S.E. At 6a.m. called all hands & exercised at fire drill. At 6.4 exercised at fire quarters & then mustered at quarters. Under steam & fore and aft sail. Course S.W. by S.

C.A. Jewett
Ensign U.S.N.

From 8 P.M. to Midnight

Generally clear with cumulus clouds. Hazy about horizon. Last hour, heavy dew. Light breeze from S.E. by S. Smooth sea with long ely swell. Ship Course S. At 8a.m. changed course to S.W. by W. ½ W. 6 or 8 which steered to end of watch. Under steam and fore & aft sail.

Examined and found to be correct.

H. Townsend
Ensign U.S.N.

F.V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Formosa.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	2	2	94.5	S. S.W. ½ W.	S. E by S.	1			29.91	69	67	66	66	b cd	cu-cum	8	S.
2	2	9	102.3	"	"	1			29.90	69	67	66	66	"	"	8	"
3	2	9	10.2	"	"	2			29.90	69	67	66	66	"	"	2	"
4	6	0	16.2	"	S. E.	2			29.89	69	68	67	67	b cf	cu-nb	4	"
5	5	1	21.3	"	"	2			29.87	69	68	67	68	b cf	cu-cum	4	"
	1	0	22.3	S. by W.													
6	5	6	27.9	S. ½ W.	"	3			29.86	68	67	67	68	"	"	3	"
7	2	4	35.3	"	"	3			29.89	68	68	68	68	"	"	2	"
8	2	2	43.0	"	"	3			29.92	72	72	69	68	"	"	2	"
9	5	8	50.5	S. S.W. ½ W. S.W.	"	2			29.94	72	72	70	68	b c	"	4	"
10	4	0	54.9	S.W. by S.	"	1			29.99	73	73	72	68	"	"	5	"
11	Standing in for anchorage				"	1			29.94	73	72	72	73	"	"	6	"
Noon.			58.2	N. E by E.	East	1			29.96	74	74	57	73	"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by D R N 25° 24 "
- Longitude by Chron 8h 55m 50s E 121° 53 "

Position at 8 P. M.
- Latitude by D R N 24° 49 "
- Longitude by Chron 8h 57m 50s E 121° 52 "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 340 "

Coal consumed during the preceding 24 hours, 9 tons 1490 lbs.

Coal remaining on hand at Noon, 83 " 2150 "

P. M.														
				Ships Head										
1				N. E.	East	2	29.91	74	74	62	63	b c	cu-cum	4
2			58.2		N. E.	1-2	29.89	74	74	62	62	"	"	2
3	3	8	61.0	E. by S. S. by S.	E. by S.	2	29.86	76	76	62	62	"	"	4
4	6	5	67.5	"	S. E.	2	29.86	76	76	62	62	"	"	3
	1	2	68.7											
5	5	6	74.3	S. E. ½ E.	S. S. E.	2-3	29.86	76	76	54	63	b c	"	5
	1	7	76.0	S. by E.										
6	3	7	79.7	S. S.W. by W.	South	2-3	29.84	78	78	64	63	b c	"	6
	1	1	80.8											
	4	1	85.0											
7	4	5	89.5	S. W.	S.W. by S.	1	29.89	76	76	64	63	"	"	2
	6	0	95.5											
8	2	2	97.7	S. by W.	"	1	29.90	75	73	71	63	"	cum	0
	2	1		Local										
9	3	0	103.3	S. E. by S.	"	1	29.90	76	74	72	63	b	nme	0
	1	6												
10	5	4	12.6	Local	"	1	29.93	76	74	72	63	"	"	10
	3	4												
11	3	4	20.0	S. by W.	S.W.	1-2	29.96	75	74	72	63	b cm	cum-nimb	8
Mid.	4	4	24.4	"	"	1-2	29.94	76	76	64	63	"	"	2

under the command of Commander J. F. Green, U. S. Navy,

Saturday April 16th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A M

Clear with heavy dew first three hours. Finishes overcast with light passing showers last hour with fog at close of watch. Light airs & breeze from S.E. by S. & S.S.E. At 3.20 stopped down. At end of watch under fore & aft sails & engine turning over slowly.

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 A M

Cloudy with passing fog banks first part, fair latter part. Gentle breeze from S.E. At 5h changed course to S. by W. at 5h 1/2 S. 1/2 W. P.L 23. Went ahead fires. Speed at 6h 5m sighted high land ahead. At 6h 40m sighted Pinnacle Island bearing p.c. S.S.E. At 7h Pinnacle Island bore E. 5/8 S. Steam & fore & aft sails. Course S. 1/2 W. at 8 o'clock.

Lieut. U.S.N.

From 8 A.M. to Meridian

Clear, pleasant weather. Light airs & breeze from S.E, light airs from East. Standing in for entrance to harbor. Changed course as follows: 8.10 to S.S.W. 1/2 W, at 8.25 to S.W. at 9.30 to S.W. 3/4 S. At 10. Gales "Bring ship to anchor", hauled in Patent Log registering 28. At 10.30 came to with port anchor in the harbor of Kelung Formosa in 5 fms veering to 15 fms chain. Bearings at anchor Basel Id. Mean N. 3/4 E. Craig Peak W. 1/4 S. Hauled fires under boilers 2 & 4 & started fires in boilers 6 & 8. Banked two fires. Draft of ship fwd 13.6" aft 15.6"

P.D. Galloway
Lieut U.S.N.

From Meridian to 4 P.M

Clear & warm. Light breeze from N.E. to S.E. At 2m called all hands, got underway, and steamed out of the harbor. At 2h 40m took departure Kelung Id. bearing (p.c.) N. by E. distant 1/2 mile. Put over P.L. reading 59. Set course E. by S. At 3h 15m started fires in boilers 1 & 3 for distilling. Under steam alone. Draft of ship fwd 13.6" aft 15.6"

A.T. Long
Ensign U.S.N.

From 4 to 6 P.M

Partly clear with cir-cumm clouds. Passing showers 1st hour with thunder. Foggy last hour to the S. Light to gentle breeze from S.S.E. to South. Smooth sea with long sly swell. Frequent tide-rips. Steaming down East Coast of Formosa. Changed course as follows at 4h 10m to S.E. 1/2 E, P.L 68.7, at 5h 0m to S. by E, P.L 44.3, at 5h 13m to S.S.E. P.L 46.0, at 5h 50m to S.E. by S. P.L 49.8. Under steam, alone.

W.C. Poundstone.
Ensign U.S.N.

From 6 to 8 P.M

Clear & pleasant. Light airs from S.W. by S. Standing down East Coast of Formosa Pilot at the conn. At 6.25 went to quarters for muster. At end of watch Steel Island bore (p.c.) N.E. by E. 1/2 E. distant 4 miles.

W.B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight

Clear & warm. Light airs from S.W. Sea smooth. Standing down coast between Steel Island & N. Point Sin ao Bay. Commanding Officer conning the ship until 10.30 then stood course S. by W. Steam alone. Stationing

P.D. Galloway
Lieut U.S.N.

Examined and found to be correct.

A.T. Long, Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Samoxana Island

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	2	1	34.5	S by W.	S S W.	2-3			29.90	78	78	75	78	b cmf	cir cum	2	S-L
2	6	8	41.3	"	"	2-3			29.88	78	78	75	78	"	"	6	"
3	2	0	48.3	"	S W by W.	2-3			29.88	78	78	75	78	"	"	4	"
4	6	9	56.2		S S W.	2-3			29.87	78	78	76	78	b cd.	cum	2	"
5	1 0	8 4	57.2 61.6	S S W. S W by S.	S W by W.	2-3			29.88	78	78	75	78	b cf.	"	3	"
6	5	9	67.5 68.3	S W.	S W	2-3			29.88	78	77	74	78	"	"	6	"
7	4 2	3 4	72.6 75.0	S W by W.	W S W.	2			29.90	77	76	73	78	b c	cir cum	6	"
8	6	5	81.5	"	W by S	2			29.91	77	76	72	78	"	"	2	"
9	6	8	88.3	S W 1/2 W.	S W by W.	2			29.93	78	77	74	78	"	"	8	S-L
10	5 2	2 0	93.5 95.5	S W.	S by W.	2			29.93	79	78	74	78	"	"	8	"
11	4	8	103.3	S S W. 1/2 W.	"	2			29.93	81	78	75	78	"	"	8	"
Noon.	2 4	1 9	105.5 110.4	S by W. 3/4 W. S by W. 1/2 W.	"	2			29.91	81	80	76	78	"	"	8	"

Course and distance made good since preceding noon by observations, S W 1/4 S 111 knots tenths.

Position at Noon:
- Latitude by D. R. N 23 ° 09' "
- Longitude by D. R. E 121 ° 03' "
- Latitude by observations of ⊙ N 23 ° 50' "
- Longitude by chronometer from Forenoon Observations of ⊙ E 121 ° 34 "

29.1875

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by D R N 23 ° 17 "
- Longitude by Obs'n P M E 121 ° 32 "

Current during the time, knots 2.2 tenths per hour, setting to the N. E by N

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8h 15m " S W 1/2 W. W 1 ° 02' "

Water expended during the preceding 24 hours, 349 gallons.

Water Distilled during the preceding 24 hours, 1 ton "

Water remaining on hand fit for use at Noon, 1 ton "

Coal consumed during the preceding 24 hours, 11 tons 325 lbs.

Coal remaining on hand at Noon, 72 " 1826 "

P. M.														
1	6	6	17.0	S by W 1/4 W.	S by W.	2	29.90	81	76	74	b c	cir cum	7	S-L
2	2	0	24.0	"	"	2	29.88	82	81	74	"	"	2	"
3	3	8	30.9	S 3/4 W.	South	2	29.87	82	81	74	"	"	6	"
4	2	0	34.9	"	"	2-3	29.86	82	81	74	"	"	6	"
5	6	6	44.5	"	"	2-3	29.85	81	80	76	"	"	4	"
6	2	0	51.5	"	"	2-3	29.87	81	79	75	"	"	7	"
7	6	8	58.3	"	S S E.	2	29.90	80	79	76	b cm	"	4	"
8	6	7	65.0	"	S by W.	2	29.90	80	80	76	"	"	8	"
9	6	9	71.9	"	"	1	29.92	80	80	75	b c	"	8	"
10	2	1	75.0	"	"	1	29.93	82	79	75	"	"	7	"
11	6	8	82.5	S S W 1/2 W.	S E	1	29.91	81	79	76	"	"	6	"
Mid.	2	3	93.8	"	"	1	29.91	80	79	76	"	"	8	"

under the command of Commander T. T. Jewell, U. S. Navy,

Sunday, April 12th, 1874.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.

Clear pleasant weather. Fog banks passing overhead. Light to gentle breys from S.S.W & S.W. by W. At 2.40 set fore & aft sails: took in do at 3.35. at end of watch in course S. by E. under steam alone. Land faintly visible on starboard beam. Mean pose at 2:15. Log veered from 7 to 8.

Lieut. U.S.N.

From 4 to 8 A. M.

Clear & pleasant. Light to gentle breys from S.S.W. to W.S.W. Light rain during part of first hour. At 4.10 changed course to S.S.W. at 4.18 to S.W. by S. at 5.05 to S.W. & at 6.40 to S.W. by W. P.L. then reading 4 to 6. Under steam alone. Land in sight on starboard hand.

A. T. Jewell
Ensign U.S.N.

From 8 A. M. to Meridian.

Generally clear, bright & warm. Clouds cir cumn. Light breze from S.W. by W. & S.W. Smooth sea with long ground swell. Ship pooling easily. At 9 went to quarters. Inspecting Officer inspected ship & crew. Steaming down East coast of Formosa. Changed course as follows, at 8 o'c to S.W. ½ W. P.L. 81.5, at 9 o'c to S.W. P.L. 88.3, at 9.51 S.S.W. ½ W. P.L. 93.5, at 10 o'c to S. by W. ¾ W. P.L. 103 & at 11.21 to S. by W. ½ W. P.L. 105. At end of watch in course S. by W. ½ W. under steam alone.

W. H. Hoggatt
Ensign U.S.N.

From Meridian to 4 P. M.

Clear & pleasant. Light to gentle breze from S. by W. & South. On course S. by W. ½ W. until 2:30 when changed course to S. ¾ W. Steaming down East coast of Formosa.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 6 P. M.

Warm & fair. Gentle breze from South. At 5 sighted Black Rock bearing (p.c.) S.S.W. ½ W.

C. D. Galloway
Lieut U.S.N.

From 6 to 8 P. M.

Clear & pleasant, misty last hour. Gentle breze from South to S.S.E. On course S. ¾ W. Land in sight all along starboard hand. Under steam alone.

From 8 P. M. to Midnight

Clear & warm. Bright starlight. Light airs from S. by W. & S.E. At 10.05 changed course to S.S.W. ½ W. P.L. 49.7. Under steam alone.

A. T. Jewell
Ensign U.S.N.

Examined and found to be correct.

A. T. Williams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Sea making passage to Samasana Islands

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	1	100.9	S.S.W. ½ W.	West	1-2			29.90	80	79	76	77	bc	cum str & cumc	8	L-S
2	4	3	108.2	"	"	2			29.86	80	79	76	77	"	"	7	"
3	5	8	15.2	S. W. by S.	"	2			29.85	80	79	76	77	"	"	8	"
4	5	0	20.2	"	N.W.	1-2			29.83	80	79	76	77	"	"	8	"
5	6	1	26.3	"	North	1			29.80	79	77	74	77	"	"	8	"
6	4	3	31.7	S. "E	N. E.	2			29.83	79	78	76	78	"	"	7	"
7	4	1	35.8	S.E. ½ E.	East	2			29.84	78	78	76	78	bcf	cir cumb	7	"
8	1	4	39.3	E.S.E. ½ E.	N.N.E.	2			29.85	81	80	77	78	bc	cir cum	7	"
9	Standing off & on			S. ½ E.	E.N.E.	2			29.85	82	80	77		"	"	8	"
10	West side of			N.W.	N.E.	3			29.85	82	81	77		"	"	8	"
11	Samasana			S by E	"	2-3			29.85	82	82	78		"	"	8	"
Noon.	Island			S. E by S.	"	2-3			29.81	82	81	78		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ N 22° 43' "
- Longitude by chronometer from Forenoon Observations of ⊙ E 121° 21' "

Pg. 1075

Position at 8 a. m.:
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.:
- Latitude by D R N 23° 02' "
- Longitude by Chro P.M. do do E 121° 44' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 1560 "

Water remaining on hand fit for use at Noon, 2900 "

Coal consumed during the preceding 24 hours, 9 tons 1475 lbs.

Coal remaining on hand at Noon, 63 " 81 "

P. M.											
1			4.0	S by E.	East	2	29.80	84	82	78	bc. cir cum.	5	S.L.
2	3	4	43.1	N. ½ W.	N.E.	3	29.80	82	80	76	" "	5	L-H
3	4	5	48.2	N by W ½ W.	"	3	29.79	81	80	76	" "	5	"
4	1	0	51.0	North	"	3	29.79	81	79	76	" "	5	"
5	5	1	56.2	N. by E.	East	2	29.80	81	79	76	" cum & mist	4	M
6	4	0	60.2	N.N.W. ½ W.	"	2	29.80	81	79	76	" "	3	"
7	2	1	63.9	S.E. by S.	N.E. by E.	2-3	29.80	80	79	76	" "	3	N-L
8	3	0	69.0	"	"	3-4	29.83	80	79	76	bcf "	2	"
9	4	6	73.6	"	"	2-3	29.82	80	78	76	" "	5	S.L.
10	5	0	78.6	"	N.N.E.	3	29.82	79	78	76	bc "	6	"
11	5	1	83.7	"	"	3	29.80	79	77	76	" "	2	"
Mid.	5	1	88.8	W.S.W.	N.N.W.	3-4	29.77	77	76	76	bcr "	2	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday April 18th, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.

Partly clear with cumulus clouds. Bright starlight. Moon rose over cloud bank at 2h. Light airs to brisk from West & N. W. Smooth sea with easy ground swell, to which ship rolled considerably at times. At 2h. changed course to S. W. by S. P. L. 114, to which steered to end of watch. At same time slowed to 5 knots. Under steam alone.

From 4 to 8 A. M.

Ensign U. S. N.

Generally clear & pleasant. Passing shower 5th hour. Light airs & breezes from North to East. Smooth sea with long swell. Ship rocking moderately at times. At 5h. changed course to S.E. to bear up for Samasana Island sighted at daylight. Good Point bearing (p.c.) N. ¼ E. Ships Head S. W. by S. Changed course as necessary to make Samasana Id. At 6:10 set fore & aft sail, took it in at 6:40. Slowed down at 7:05. Standing around Northern end of island. At end of watch in charge of Cond'g Officer.

From 8 A. M. to Meridian

W. B. Hoggatt
Ensign U. S. N.

Fair & hot. Gentle breeze from N. E. Sea smooth with swell from S. At 9h. sent whale boat ashore to Samasana Island. Ensign Fechteler in charge, accompanied by Ensign Poundstone, crew of steam cutter Shiver, Pilot & Steerage Steward (Chinaman) as interpreters to make inquiries as to loss of American barque Attic Comm Capt. Pendleton, supposed to have been lost on this island in August last. They landed safely about 10h. many natives in sight on hills & along beach. At 9h. quarters. Stood off & on. Cond'g Officer at the helm. Observed strong current setting N. N. W. with very strong eddies & tide-rips. Released from confinement W. F. McCullen, 2 C.A., his time having expired, by order of Cond'g Officer.

T. F. Jewell
Lieut U. S. N.

From Meridian to 4 P. M.

Clear warm weather. Fog drifting overhead. Light breezes from East. Gentle breeze from N. E. at 1:20 boat returned to ship. At 1:28 stabilis ahead full speed & worn ship to N. W. At 1:35 hove patent log, registering 0.0. At 1:35 took departure N. Point Samasana bore (p.c.) E. ⅝ S. distant 5 miles. Set course N. by W. at the same time fore & aft sail, took it in at 3:50. Changed courses as follows at 2:46 to N. by W. ½ W, at 2:52 to North, at 3:50 to N. by E. at end of watch. Black Rock Id bore N. W. by N. distant 5 miles. Boat brought on board the following wreckage, One (1) box mustard (case empty) marked "U. C. Co - 106 - This side up - Sold, two, Chong China Nut Oil" in English. In Chinese "Chang Juley Hong Kong" also one keg English "U. C. Co - 14". In Chinese "Sing Ong Chong" Chinese Sauce - 95 lbs" (nearly). One bucket marked "A" in brass. One door & part of window sash or skylight (iron casting) & one door lock, marked "Yale & Towne N. Y." Long heavy swell from S. E. Underran the land. Stopped distilling at 2:55 & hauled fires under boilers 1 & 3. Expended in Navigation Dept. one ~~mustard~~ keg (empty case)

E. T. Walling
Lieut U. S. N.

From 4 to 6 P. M.

Weather clear & warm. Light breeze from N. E. & East. Set fore & aft sail at 5h. Changed course several times during watch. Steering S. E. ½ S. at end of watch. Fitted coir pendants for fore & foretopsail braces, so as to clear them of heat of smoke stack.

Lieut U. S. N.

From 6 to 8 P. M.

Generally cloudy, occasional starlight. Clouds cumulus & wind. Light to moderate breeze from N. E. by E. Long S. E. swell with moderate sea & swell from N. & E. Ship uneasy. Passing showers last hour. Very rainy appearances at end of watch. At 6h. lost sight of Black Rock Id, bearing (p.c.) W. N. W. ½ W. As course S. E. by S. under steam & fore & aft sail.

W. C. Poundstone
Ensign U. S. N.

From 8 P. M. to Midnight

Partly clear first part with light passing showers first hour, raining & squally last hour. Gentle breeze from N. N. E. shifting to N. & W. last hour. At 11h. changed course to W. S. W. P. L. 93°. Took in flying jib at 11:30. Under steam & fore & aft sail ex cept flying jib at end of watch. Long swell from S. E. to which the ship rolled deeply, on course W. S. W.

Examined and found to be correct.

W. B. Hoggatt
Ensign U. S. N.

A. V. Wadhams
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Standing off & on Black Rock Bay

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	10	6	104.1	W. & W.	N. E.	3-5			29.76	78	74	74	81	b.c.g.	cumulus	3	N
2	3	2	104.9	"	"	3-5			29.73	78	76	73	81	"	"	3	"
3	4	2	12.1	"	"	3-5			29.73	78	76	74	81	"	"	9	"
4	2	3	14.5	W. & W.	N. N. W.	2-4			29.71	74	76	73	80	"	"	4	"
5	5	1	21.9	"	"	3			29.73	78	76	73	80	"	"	3	"
6	3	0		S.W. by S.	N.	3			29.78	78	78	74	80	b.c.	"	4	N.
	4	2	28.1	N.W. by N.	N. N. E.												
7	6	1	34.2	"	"	3			29.79	79	78	75	80	"	"	5	"
8	2	9	39.2	N. W. by W.	"	3			29.79	79	78	75	80	"	"	6	"
	1	1															
9	4	0	46.2	"	"	3			29.76	79	78	74	80	"	cumu	9	"
10	5	6	51.8	W. & N.	"	3			29.76	79	78	74	80	"	cir cumu	9	"
11					"	3			29.74	80	79	75	80	"	"	9	"
Noon.					"	3			29.75	80	80	76	80	"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

14 1875

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by D R 1 23° 40' "
- Longitude by Chron D R D R D R E 121° 42' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 160 "

Water remaining on hand fit for use at Noon, 2400 "

Coal consumed during the preceding 24 hours, 6 tons 1750 lbs.

Coal remaining on hand at Noon, 56 " 5250 "

P. M.															
1	Average way			Ships Head S. E. 3/4 S.	N. N. E.	2	29.74	81	80	76	b.c.	cir cumu	8	S.	
2				S. E.	"	2	29.73	81	79	76	"	"	5	"	
3				S. W. by W.	"	2	29.71	81	79	76	b.c.h.	cumulus	2	"	
4				East	North	2	29.71	81	78	76	o.c.r.	cumu nim	0	"	
5	5	3	54.2	N. N. E.	"	3	29.74	80	74	74	b.c.h.	"	2	"	
6	6	9	64.6	"	"	3-4	29.72	80	76	74	o.c.g.	"	0	N.	
7	6	0	70.6	"	"	3	29.75	80	76	74	o.c.r.	"	0	"	
8	6	6	77.2	"	"	3	29.78	80	76	74	"	"	0	"	
9	6	0	83.2	"	N. N. E.	2-3	29.84	79	76	74	o.c.g.	"	0	S. E.	
10	5	6	88.8	"	N. E. by N.	2-4	29.82	79	76	73	"	"	0	"	
11	6	2	95.0	"	"	2-4	29.84	79	76	73	b.c.g.	"	2	"	
Mid.	5	3		N. E. by E.	"	2-4	29.88	78	76	72	o.c.g.	"	3	"	
	1	0	101.3	N. N. E.											

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday April 19th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A M

Cloudy & warm. Gentle to moderate breez from N. N. E. Heavy swell from S. At 12 Sc. changed course to S. E. by S. P. L. 104.1. At 3 Sc. to W. by S. P. L. 114.5. During last hour wind moderated to gentle breez & swell decreased.

T. C. Galloway
Lieut U. S. N

From 4 to 8 A M

Clearing weather. Gentle breezes from N. N. W. to N. N. E. At 5:00 sighted high land. Changed course to S. W. by S. & W. at 5:30 to N. W. by N: at 7:45 to N. W. by W. at end of watch heading for Black Rock Bay. Heavy swell from E. & E. with cross swell from South. At 8 Black Rock bore N. W. by W. Camiguin (highest peak) S. by W. ½ W. At 7:32 started fires in Nos 1 & 3 boilers.

L. T. Wood
Lieut U. S. N.

From 8 A M. to Meridian.

Fair with moderate N. N. E. breez. At 9:30 inspected at quarters. At 9:45 prepared the parties to land & seek hidings of the crew of the Abby Carver. At 10. stopped & lowered the gig & sent parties in charge of Ensign Feehteler. Picking up & laying to under Spanker and Head sails & watching the landing ges the rest of the watch. Swell from S. E. long rolling & smoot.

George A. Bicknell
Lieut Comdr U. S. N

From Meridian to 4 P M

Partly clear first two hours, passing shower third hour overcast & raining last hour. Thunder last two hours. Light breez from N. N. E. & Head. Moderate swell from E. S. E. Lying to off Black Rock Point under fore & aft sails awaiting return of the gig. Gig returned at 3:05. Examined dry gun cotton & electric batteries. Found to be in good condition.

W. B. Haggott
Ensign U. S. N.

From 4 to 8 P M

Overcast & rainy. Light breez with frequent moderate to stiff rain squalls first part. Steady rain latter part. At 4 Sc. Started in course N. N. E. P. L. 5.18. Lost sight of land at 7. Passed through large quantities of sea weed. Heavy swell from E.

T. C. Galloway
Lieut U. S. N

From 8 P M to Midnight

Rainy & warm weather. Light to stiff breez from N. N. E. Light to moderate breezes from N. E. by N. Wind sketching from light breez in squalls. Under steam & sail in course N. N. E. at 11:45 saw Leyte off to N. E. in appearance of land. Long heavy swell from S. E. Ship pitching & rolling deeply extreme roll 28°. Land in sight at end of watch in port bow & beam. At 12: changed course to N. N. E. ½ E.

L. B. T. Wooding
Lieut U. S. N

Examined and found to be correct.

A. V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Ke Lung.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	5	9	4.2	N.N.E 1/2 E.	N.N.E.	2-3			29.85	49	45	44	49	b.c.	cum & cumst	2	M.d
2	6	6	13.5	"	N. by E.	2-3			29.84	49	44	41	49	"	"	2	"
3	6	2	19.4	"	"	2-3			29.83	48	44	41	49	"	"	2	"
4	6	2	25.9	"	N. by W.	2-3			29.81	48	44	41	49	"	"	2	"
5	5	4	31.3	"	N.N.E.	3			29.83	48	43	41	49	"	cu-cum	3	"
6	4	7/8	35.5	N. by W.	"	3			29.85	48	42	40	49	"	"	2	"
Dy. 1057			38.6	N.W.													
N 25°	7	4	46.4	"	"	3			29.84	46	42	41	49	b.c.	cum-cumst	0	"
L 122° 05	8	6	53.2	"	"	3			29.89	45	40	69	49	"	"	0	"
	9	7/8	62.0	N.N.W 1/2 W.	"	3			29.90	43	40	69	49	"	"	0	
	10	5	67.1	W. 3/4 N.	"	2			29.92	43	40	68		b.cum	"	0	S
				Standing in for an anchorage.													
	11			Ships Head N.E. by N.	N.E.	2			29.93	44	41	40		"	"	0	"
	Noon.			"	"	1			29.93	46	42	40		b.c.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Dy. 1051

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by D R N 25 03.3 " "
- Longitude by Chro E 121 04.8 " "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2340 "

Coal consumed during the preceding 24 hours, 10 tons 525 lbs.

Coal remaining on hand at Noon, 46 " 46 "

P. M.																	
				Ships Head													
1				N.E. by N.	N.E.	2			29.90	44	42	40		b.c. full	cumst & mist	0	S
2				"	"	2			29.84	42	41	40		"	"	0	"
3				N.E.	"	2			29.84	43	42	40		"	"	0	"
4				"	"	1			29.86	43	41	69		"	"	0	"
5				North	"	1			29.86	42	40	68		b.cum	"	0	"
6	3	0	3.0	N. by E. 1/2 E.	N.E. by E.	2			29.86	40	69	67	45	b.cum	"	0	S.E.
7	2	3	4.2	"	N.E.	2			29.84	40	69	67	45	b.c.	"	0	"
8	8	2	22.4	"	E.N.E.	2-3			29.84	41	69	68	45	"	"	0	"
9	8	4	30.8	"	N.E. by E.	3			29.92	41	69	68	45	b.cum	cumst & mist	0	"
10	8	1	38.9	"	"	3			29.92	41	69	68	45	b.c.	"	0	"
11	7	6	46.5	"	"	3			29.92	41	69	68	45	"	"	3	"
Mid.	6	7	53.2	"	"	3			29.94	41	69	68	45	"	"	2	"

under the command of Commander T. F. Jewell, U. S. Navy,

Wednesday April 20th, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A.M.

Generally cloudy. Light to gentle breze from N.N.E & then from N. by W. Employed from S.E. Chip loading & pitching derby. Under steam, alme. Course N.N.E ½ E.

A.T. Clayton
Ensign U.S.N.

From 4 to 8 A.M.

Generally cloudy: overcast latter part. Clouds cir-cumu cumu & nimb. Gentle breze from N.N.E. Employed from S.E. with anchor cross sea & swell from N.E. Occasional side-rain latter part. At 5h sighted Sker Island bearing 5 c West. Changed course to N. by W. P.L. 313. At 5h changed to N.N.W. P.L. 32. & set fore & aft sail. At 5h 2m changed course to N.W. P.L. 339 & set foresail. Took in foresail at 5h. Arrived at & moored under steam & fore & aft sail. On course N.W. Land all along on port side.

N.C. Poyneator
Ensign U.S.N.

From 8 A.M. to Meridian

Overcast cloudy & misty first three hours clearing last hour. Gentle breze to light airs from N.N.E & N.E. Standing along N.E. coast of Formosa, Navigator at the conn first part. At 8:10 set foresail at 9:15 took in foresail & fore & aft sail. At 9:20 called all hands bring ship to, anchor & at 10:15 let go starboard anchor in 4 fms water. Moored ship 20 fms on each chain. Bearings at anchorage pc)
. Made preparations for coaling ship. Received 12½ tons coal. Draft fwd 13', aft 15'.

W.B. Hoyt
Ensign U.S.N.

From Meridian to 4 P.M.

Overcast with frequent showers of rain. Mild. Light breze from N.E. Employed coaling during which received on board 46 tons. At 3h 30m moored, hove up port anchor, hove in to 20 fms on starboard chain. At 2h 45m Chinese Gunboat "Hy Ching" (No 13) went to sea.

Th. Galloway
Asst Engr U.S.N.

From 4 to 6 P.M.

Foggy misty weather. Light airs to gentle breze from N.E. At 4h 50m finished coaling having taken in all 65½ tons. At 5h 0m called all hands up anchor. Got underway & stood out of harbor. Put over P.L. reading 2 fms at 5h 10m. At 5h 15m set fore & aft sail. Went ahead on course N by E ½ E at 5h 20m took departure Hsiung Ds I. E ½ E distant 1 mile P.L. 3. Set course N ½ E. Fog closing down smooth sea. Draft of ship fwd 14', aft 16'.

D.J. Waring
Asst U.S.N.

From 6 to 8 P.M.

Overcast & cloudy with occasional light drizzling rain. Light to gentle breze from N.E & E.N.E. At 7h 0m took in & at 7h 45m set fore & aft sail. Made flying jib. Course N ½ E.

A.T. Clayton
Ensign U.S.N.

From 8 P.M. to Midnight

Cloudy. Overcast 1st hour. Occasional starlight afterwards. Clouds cir & nimb. Rain squalls showing in horizon. Smooth sea with long easy swell from N.E. Ship under steam & fore & aft sail, on course N ½ E.

N. Poyneator
Ensign U.S.N.

Examined and found to be correct.

J.V. Warham Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Shanghai

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	5	59.4	N. 1/2 E.	N E by E	3			29.90	69	68	68	71	f. c	cum-nimb	0	Sl
2	6	5	66.2	"	N N E	4			29.90	69	68	66	71	"	"	0	"
3	4	4	73.9	"	N by E	3			29.90	68	67	65	71	"	"	0	"
4	4	2	81.1	"	"	3			29.90	67	66	65	69	o. c	"	0	"
5	6	6	87.7	"	"	2-3			29.90	67	66	65	67	"	"	0	"
6	4	0	94.7	"	"	2-3			29.90	67	67	63	67	"	"	0	"
7	4	2	101.9	"	N N E	2-3			29.91	67	67	63	67	"	"	0	"
8	6	3	8.2	"	"	2-3			29.93	67	67	63	67	"	"	0	"
9	6	2	14.4	"	N E	3			29.96	66	63	62	67	o. f.	"	0	"
10	6 / 3	1 / 3	20.5 / 21.8	N N E	"	3-4			29.98	66	63	62	67	"	"	0	"
11	6	4	28.5	"	"	4			29.98	66	63	62	67	"	"	0	"
Noon.	6	8	35.3	"	"	4			29.99	66	63	62	63	"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Dy. 1051

Position at Noon:
- Latitude by D. R. — N 24 . 24 "
- Longitude by D. R. — E 122 . 06 "
- Latitude by observations of ⊙ — ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 121 . 56 "

Position at 8 a. m.
- Latitude by D R — N 26 . 48 "
- Longitude by Sun Sights — E 121 . 49 "

Position at 8 P. M.
- Latitude by D R — N 28 . 11 "
- Longitude by Sun Sights — E 122 . 20 "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 4 13 " N N E W 1 50 "

Water expended during the preceding 24 hours, 360 gallons.

Water——————— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1980 "

Coal consumed during the preceding 24 hours, 15 tons 1450 lbs.

Coal remaining on hand at Noon, 95 " 1955 "

P. M.																	
1	5	9	4.2	N N E	N N E	3-4			30.00	66	63	61	63	f. c	cum-nimb	0	N
2	4	1	48.3	"	"	3			29.98	66	64	61	66	b. c	cum-str	3	"
3	4	2	55.5	"	"	3			29.96	66	64	61	64	"	cir-cum	5	"
4	6	8	62.3	"	"	3			29.94	66	64	61	63	"	"	5	"
5	5	6	67.9	"	N E	3-4			29.93	65	62	59	63	"	cir-str	4/8	"
6	6	3	74.2	"	"	4			29.94	64	62	58	63	"	"	4/8	"
7	6	4	80.6	"	N E by N	4			29.94	64	62	59	63	"	cum	4/8	N E
8	6	0	86.6	"	"	4			29.96	64	61	58	63	"	"	4/8	"
9	4	5	91.9	"	"	3-5			29.98	65	61	58	62	l. c. g.	cir-cum	4/8	"
10	5	3	96.4	"	"	3-5			30.00	64	60	57	62	"	"	6/8	"
11	4	9	101.3	"	"	5-6			30.00	63	60	56	62	"	"	4/8	"
Mid.	6	2	7.5	"	"	5-6			30.01	62	59	55	61	"	"	4/8	"

under the command of Commander T. F. Jewett, U. S. Navy,
Thursday April 21st, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & Until 4 A.M.
Overcast cloudy & damp. Light to moderate breeze from N.E. by E. to N. by E. At 12:50 took in fore & aft sail. At end of watch in course N.N.E. under steam alone.

W. B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.
Overcast & damp. High fog. Signs of clearing last hour. Light breeze from N by E & N.N.E. Long moderate swell from East. Sea moderate. Under steam alone.

E. D. Galloway
Asst. U.S.N.

From 8 A.M. to Meridian
Overcast with fog. Damp. Light to moderate breeze from N.E. Long swell from E. At 9:10 set fore & aft sail. At 9:30 inspected at quarters and exercised as per routine. Exercised Engineers Divisions at Small arms. At 9:45 changed course to N.N.E. At 10: sent down Light Yard. Took in fore & aft sail. At end of watch under steam alone in course N.N.E.

L. T. Washburn
Lieut U.S.N.

From Meridian to 4 P.M.
First part of watch cloudy; clear & pleasant towards end. Light to moderate breeze from N.N.E. Exercised apprentices of first watch at signals.

A. Jewett
Ensign U.S.N.

From 4 to 6 P.M.
Generally clear with cir. St. clouds. Bright & cool. Light to moderate breeze from N.E. with moderate sea from same direction. Ship steady. Under steam alone in course N.N.E.

C. C. Soper
Ensign U.S.N.

From 6 to 8 P.M.
Generally clear. Moderate breeze from N.E. by N. & N.N.E. Moderate sea. At 6:20 went to quarters for muster. On course N.N.E.

W. B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight
Generally fair. Clouds passing over with wind. Stiff to fresh breeze with squalls from N.E. by N. Moderate sea with occasional head seas from N.N.E. Ship pitching deeply at times. At 12 o'c changed course to N.N.E. 1/2 E.

E. D. Galloway
Asst. U.S.N.

Examined and found to be correct.

A. V. Wadhams, Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At Sea making passage to Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	0	1	8.2	N. N. E. ½ E.	N. by E.	4.6			30.01	62	59	55	61	b.f.g.	cir. cum.	3	M.S.
2	3	3	11.2	"	"	4.6			30.01	62	59	55	61	b.f.g.	"	0	L.R.
3	4	4	16.1	"	"	4.4			30.02	62	59	55	61	"	"	0	"
4	3	3	19.4	"	"	4.4			30.03	62	59	55	61	"	"	0	"
5	1	8	21.2	"	"	4.6			30.02	59	57	52	61	l.c.g.	"	0	"
6	0 / 1	6 / 2	21.8 / 22.3	N. N. E. / N. by E.	"	4.6			30.03	59	56	52	60	"	"	0	"
7	2	8	26.1	"	"	4.6			30.03	59	56	51	60	"	"	0	"
8	3	0	29.1	"	"	4.6			30.05	58	55	52	60	"	"	0	"
9	1	5	30.6	"	"	4.6			30.05	58	55	52	59	" l.	cum. & wind	0	N.R.
10	4	2	34.8	"	North	4.5			30.04	58	55	52	59	"	"	0	"
11	4	5	39.2	"	"	4.5			30.04	58	55	52	58	l.c.g.d.	"	0	"
Noon.	4	1	43.3	"	N. by E.	4.5			30.04	57	55	52	58	l.c.g.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Pg. 1051 Position at Noon: Latitude by D. R. N 29 ° 11' "
Longitude by D. R. E 122 ° 43' "
Latitude by ~~observations of~~ Bearing of S. Saddle Island N 28 ° 58' "
Longitude by ~~chronometer from Forenoon Observations of ⊙~~ " " E 122 ° 29' "

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by D R N 29 ° 24' "
Longitude by Sun P. M. " " E 122 ° 39' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1620 "

Coal consumed during the preceding 24 hours, 19 tons 1580 lbs.

Coal remaining on hand at Noon, 246 " 246 "

P. M.													
1	3	2	46.5	N. N. E.	N. N. E.	4.5	30.09	54	52	58	l.c.g.d.	cum. wind	0 N.R.
2	4	2	50.7	"	"	4.5	30.08	54	53	52	58	"	" 0 "
3	3	6	54.3	"	"	4.5	30.08	56	51	49	54	"	" 0 "
4	4	0	58.3	"	"	4.5	30.09	56	52	49	54	"	" 0 "
5	3	9	62.2	"	North	5.6	30.12	56	52	49	54	l.c.r.	" 0 "
6	3	5	65.7	"	"	5.6	30.13	56	52	49	54	" g	" 0 "
7	4	8	70.5	"	"	4.6	30.13	56	52	49	54	"	" 0 L.R.
8	5	3	75.8	"	"	4.6	30.18	56	52	49	54	"	" 0 "
9	5	9	81.7	"	N. N. E.	3.4	30.15	56	51	48	54	"	" 0 "
10	6	9	88.6	"	"	3.4	30.16	56	52	49	54	"	" 0 "
11	6	6	95.2	"	North	3.4	30.16	56	54	49	54	l.c.g.	" 0 "
Mid.	6	6	101.8	"	"	3.4	30.16	56	52	49	54	"	" 0 "

under the command of Commander T. F. Jewell, U. S. Navy,

Friday April 22d, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and noted at A. M.

Overcast with fog, damp & cool. Moderate to very fresh breezes in squalls from North to N. N. E. Long, rough sea. Pitching deeply but easily. Steering a course N. N. E. & E. under steam alone. Barometer steady.

P. G. Wiggins
Lieut. U. S. N.

From 4 to 8 A. M.

Cloudy & squally. Moderate to fresh breeze from N. by E. Rough sea. Ship pitching deeply & rolling heavily at times. At daylight sighted Fisher's Island. At 8 o'c it bore W. N. W. At 5.15 changed course to N. N. E. & E. at 5.25 to N. by E. Under steam alone. Broke two of mast head light while lowering it.

C. A. Leavitt
Ensign U. S. N.

From 8 A. M. to Meridian.

Overcast with cum. & cirri clouds. Occasional drizzle first part. Moderate to fresh breeze in moderate squalls from N. N. E. Long rough sea from N. E. & North. Ship pooling 15° at times & occasionally pitching 1° or 2°. Ship very uneasy. On course N. by E. till 12 o'c when changed to N. N. E. Under steam alone. Islands in sight on port hand throughout watch. Stood off & on, South Fisher's Island bore from S. W. by W. to W.

W. C. Pomeroy
Ensign U. S. N.

From Meridian to 4 P. M.

Overcast, cloudy, squally & raining. Moderate to fresh breeze in squalls from N. N. E. to North, moderating last hour. Heavy rough sea from N. N. E. Ship pitching deeply at times. On course N. N. E. Steam alone.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 6 P. M.

Overcast with frequent rain squalls. Fresh breeze from North. At 4 o'c sighted Islands bearing N. W. by W. at 6 o'c bore abeam (6 N. of P.). Ship pitching into short head sea.

D. P. Galloway
Lieut U. S. N.

From 6 to 8 P. M.

Rainy overcast weather. Moderate to fresh breeze from North. Long broken sea from North under steam on course N. N. E.

S. T. Cassidy
Lieut U. S. N.

From 8 P. M. to Midnight.

Cloudy with light rain during first hour. Gentle to moderate breeze from North & N. N. E. Under steam alone. Course N. N. E.

C. A. Leavitt
Ensign U. S. N.

Examined and found to be correct.

A. T. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Shanghai

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	6	6	108.4	N. by E.	N. by E.	3			30.12	56	64	49	54	b.c	cum-strat	0	M
2	4	6	13.0	W.N.W.	N.N.W.	3			30.16	55	64	48	54	"	"	0	"
3	3	4	17.8	W.N.W. ½ W.	"	3			30.17	55	64	48	54	b.c	"	2	SE
4	2	3	19.8	"	"	3			30.18	55	64	48	54	"	"	4	"
5	2	4	23.3	N.E. by N	"	3			30.21	56	54	48	54	"	cir-cum	5	"
6	4	9	31.2	N.N.E	"	3			30.23	56	54	49	54	"	"	6	"
7	4	8	39.0	N. ½ W.	N.W.	3			30.25	54	54	49	56	"	"	4	"
8	4	5	46.5	N. 3/4 W.	"	3			30.26	58	54	49	56	"	"	4	"
9	4.	0	53.5	"	N.W. by W.	3-4			30.24	55	55	49	56	b.c	cir	4	SE
10	4	5	61.0	"	"	4-5			30.24	56	55	50	56	"	"	5	6
11	4	4	68.4	"	N.W.	5			30.24	56	55	50	56	"	"	5	"
Noon.	5	4	40.21 45.9	N.W. ½ W.	N. by W.	5			30.24	54	56	50	56	"	"	4	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by ~~observations of ☉~~ bearings N. Steeple Rock Isd S. 4 E. N 30 ° 49 . 3 "
- Longitude by ~~chronometer from Forenoon Observations of ☉~~ bearings N.W. side Saddle Isd N.E. ½ E. W 122 ° 32 . 20 "

Position at 8 a. m.
- Latitude by D R N 30 ° 20 ' "
- Longitude by bearings Alt. Isd Lt House S.W. ½ W. / Bunker Rock N.W. ½ W. E 122 ° 45 ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ☉ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ☉ observed at " ° ' "

Variation of the Compass by Azimuth ☉ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1260 "

Coal consumed during the preceding 24 hours, 18 tons 940 lbs.

Coal remaining on hand at Noon, 54 " 1626 "

P. M.										
1	4	0	82.9	N.W. ½ W.	North	3-4	30.24	55	50	56	b.c	cir-cum	6	M
2	4	8	90.7	"	"	3-4	30.24	56	50	55	"	"	4	"
3	4	9	98.6	"	"	3-4	30.24	56	48	55	"	"	4	"
4	2	2	5.4	N.W. by W.	"	3-4	30.25	54	49	55	"	"	4	"
5	5	6	12.9	N.W. ½ W.	"	3	30.25	54	47		b.c		4	M
6	10	0	22.9	N.W. by W.	"	2	30.25	51	55	48	"	"	6	"
7	3	2	25.1 28.3	N.W. ½ W.	E by N.	1-2	30.24	54	56	51	"	cum-str	6	SE
8				N E	E S E	1-2	30.24	58	56	52	"	"	4	"
9				E S E	South	1-2	30.29	68	49	52	"	"	8	"
10				S E	"	2	30.30	65	49	52	"	"	4	"
11				"	"	2	30.30	65	49	52	"	cir-cum	6	"
Mid.				S E by S	"	3	30.28	61	49	52	"	"	6	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday April 23d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Commences & Mettie & A. M.

Overcast first part. Clearing latter part. Strong cum & vari. Gentle breeze from N. by E. 1st hour. N. N. W. afterwards. Moderate sea from N. N. E. 1st part smooth sea with long gentle swell from N. E. afterwards. Ship pass. At 1h 0m changed course to S. 81 W. D. L. 130 & at 2 0 to W. N. W. ½ W. which steered to end of watch. At 12h 30m sighted Vidette Isd. bearing (p.c.) N. by W. ½ W. At 14h 5m slowed engines to part turning forward set fore & aft sail which condition remained unchanged to end of watch. At 4h 0m Steel Isd Light bore N. N. W. ½ W. Vidette Isd. N. N. E.

W. C. Cornthwaite
Ensign U. S. N.

From 4 to 8 A. M.

Generally clear. Cool. Gentle breeze from N. N. W & N. W. At 4h 0m changed course to N. E. by N & steamed ahead full speed. At 5h 0m changed course to N. N. E; at 6h 0m to N. by W. & hoisted in fore & aft sail. At 7h 0m to N 3/4 W. at end of watch under steam alone. Steel Island Lt. bore (p.c.) S. W. 1/4 W. Beehive Rock N. W. 7/8 W.

W. B. Hoggatt
Ensign U. S. N.

From 8 A. M. to Meridian.

Fair hazy & cool. Light breeze from N. W. & N. N. W. At 9h 0m mustered at quarters, and inspected ditty boxes. Standing up through Chusan archipelago between Saddle Mount and the Rapples. At 11h 0m changed course to N. W. ½ W. Placed W. F. McCollum, 2. C. G., in solitary confinement, five days, bread & water, for insolence to officer of the deck.

W. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Clear & cool. Gentle to moderate breeze from North. At 12.45 set fore & aft sail. At 3.15 took in fore & aft sail & stood up for pilot boat: slowed & stopped at 3.35. Took a pilot, and went ahead full speed on course N. W. by W. Set fore & aft sail. At end of watch, standing for outer bar under conn of pilot. Bearings at 4.

P. T. Waering
Lieut U. S. N.

From 4 to 6 P. M.

Clear & pleasant. Light breeze from North. Standing up the Yang tse Kiang in charge of pilot. At 5.00 moored at quarters.

A. A. Lucas
Ensign U. S. N.

From 6 to 8 P. M.

Partly clear with cumulus clouds. Light airs to breeze from W. by N. to S. E. Steaming up Yang tse River in charge of pilot till 6h 45m, when came to in 4½ fms of water with 30 fms chain on starboard anchor. Took in fore & aft sail at 6h 0m. Rising to obt. Greatest Strength 1.5 knots. Bearings Tungsha Lt. Ship (p.c.) East, distant 1 mile. Draft fwd 13'-6", aft 13'-6". Banked fires under all boilers.

W. C. Cornthwaite
Ensign U. S. N.

From 8 P. M. to Midnight.

Generally clear. Mild. Light to gentle breeze from South. Riding to flood tide current 2.2 knots setting N. W. at end of watch.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

T. F. Jewell
Lieut Commander U. S. N.
Navigator.

LOG of the UNITED STATES Steamer "Ewo", 3d Rate,
at Sea making passage to Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				South	S.S.W.	2			30.28	65	65	55		b.c	cir.cumm	8	S.
1				S.W.	S.W.	2			30.26	60	65	53		"	"	8	"
2				West	"	2			30.26	59	54	52		"	"	8	"
3				W. by N.	"	3			30.26	59	54	53		"	"	9	"
4				W.N.W.	"	3			30.25	58	56	53		"	"	8	"
5				N.W. by W.	"	2			30.26	59	56	53		"	"	6	"
6				"	"	2			30.28	59	56	53		"	"	6	"
7				"	"	2			30.30	59	56	53		"	"	5	"
8	Setting Lookout			N.W. 3/4 W.	West	3			30.31	60	59	53		"	Cumm	3	"
9				N.W.	N.W.	3			30.33	60	59	54		"	"	3	"
10				W. by N. 1/2 W.	"	3			30.32	61	58	54		"	"	5	"
11				"	"	1-2			30.31	64	64	59		"	Cir. cumm	8	"
Noon.																	

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water——————— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 901 "

Coal consumed during the preceding 24 hours, 9 tons 850 lbs.

Coal remaining on hand at Noon, 48 " 826 "

P. M.									
1	Flood		S.W.	1	30.26	66	65	cir.cumm	S.
2	"	N.W.	"	1	30.25	64	64	3	"
3	"	"	"	1-2	30.22	68	68	2	"
4	"	N.W. by W.	"	1	30.23	69	69	4	"
5	Ebb	S.E.	"	0-1	30.28	69	64	4	"
6	"	"	"	1	30.23	64	66	5	"
7	"	S.E. by S.	S. by S.E.	1	30.23	66	66	4	"
8	"	S.E.	S.E.	0-1	30.24	66	64	9	"
9	"	"	"	1	30.26	66	63	4	"
10	"	"	"	1	30.27	66	59	9	"
11	"	"	"	1	30.29	65	59	8	"
Mid.	"	S.W.	W.N.W.	1	30.28	65	59	9	"

under the command of Commander T. F. Jewett, U. S. Navy,
Sunday April 21st, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A.M.
Clear & cool. Light to gentle breeze from S.W.
E. F. Calloway
Lieut. U. S. N.

From 4 to 8 A.M.
Clear & cool. Light to gentle breezes from S.W. At 5.20 called "All hands up Anchor" & got underway. Standing up entrance to Yangtse River pilot coming aboard. Course N.W. by W. Draft of ship forward 13'6" - aft 15'6".
D. H. Wood
Lieut U. S. N.

From 8 A.M. to Meridian
Generally clear & pleasant. Light to gentle breeze from West & N.W. Standing up the Yang Tse Kiang River with Pilot on board. Towns seen of water. Standing up Whusung River with Pilot on board. At 9.21 Commander inspected ship with crew at quarters.
A. P. Leighton
Ensign U. S. N.

From Meridian to 4 P.M.
Partly clear with cirrus clouds. Bright & warm. Light SW airs steaming up Whusung River in charge of Pilot till 12 M. when Harbor Master of Shanghai came on board. At 12 M. came to in Upper Reach off Shanghai, in 5 fms of water & moored ship with 20 fms on 1 get chain. Hauled down ensign. Received pratique. Riding to flood. Sitting 2 & 4 Cutters & Gig. Cut an officer to communicate with U. S. Consul General. An Officer from H. M. S. "Daring" made official call of courtesy. Got ready for port. Commanding Officer left ship at 2 P.M. to make official visits. Draft of water fwd 13'6" - aft 15'6". Bearings at anchorage American Consulate N. by W. 7/8 W. French Consulate N.W. by W. 3/4 W.
H. C. Longstaffe
Ensign U. S. N.

From 4 to 8 P.M.
Clear & pleasant. Calms & light variable airs. Commander left ship to pay official visits. United States Minister to China & U. S. Consul to Shanghai came on board. Ship swinging to ebb at 4.30 P.M.
A. P. Leighton
Ensign U. S. N.

From 8 P.M. to Midnight
Clear, bright starlight. Cool. Light cirrocumulus clouds. Light airs from S.E. shifting to W. by W. last hour. Riding to ebb till 11 P.M. when ship swinging to flood. At 9 o'c, current set N.W. 2.6 knots. Sultry.
H. C. Longstaffe
Ensign U. S. N.

Examined and found to be correct.

A. T. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Shanghai

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N.W.	South	2			30.236	35	86	5		b.c.	cir-cum	8	4
2	"			"	"	2			30.216	35	86	6		"	"	8	"
3	"			N.W. by W.	S.S.E.	1			30.206	25	95	4		"	"	4	"
4	"			"	"	1			30.206	25	66	3		"	"	4	"
5	Ebb			South	South	1			30.206	25	66	3		"	"	8	"
6	"			"	"	1			30.205	25	66	2		"	"	4	"
7	"			"	"	1			30.215	96	66	3		"	"	4	"
8	"			"	"	1			30.226	16	95	3		"	"	8	"
[illegible]				"	"	1			30.226	26	36	4		"	"	6	"
10	"			"	"	2			30.226	16	05	4		"	"	6	"
11	"			S.E.	"	2			30.206	46	86	0		"	"	6	"
Noon.	"			S.E. by S.	"	2			30.206	96	96	0		-	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 860 "

Water remaining on hand fit for use at Noon, 1400 "

Coal consumed during the preceding 24 hours, 1 tons 1850 lbs.

Coal remaining on hand at Noon, 46 " 1216 "

P. M.										
1	Flood	N.W.	South	3	30.206	96	96	b.c.	cir-cum	9
2	"	N.W. by N.	"	3	30.204	06	59	"	"	9
3	"	"	"	3	30.214	06	05	"	"	9
4	"	W.N.W.	"	3	30.214	06	05	"	"	9
5	Ebb	S.S.E.	S.S.E.	3	30.126	96	85	"	cir-cus	9
6	"	S.E. by S.	"	3	30.096	66	56	"	"	9
7	"	"	"	3	30.096	46	56	"	nne	10
8	"	"	"	3	30.056	36	58	"	"	10
9	"	"	"	3	30.056	36	58	"	"	10
10	"	"	"	3	30.106	36	54	"	"	10
11	"	"	"	3	30.106	35	58	"	"	10
Mid.	"	"	"	3	30.096	55	58	"	"	10

under the command of Commander T. F. Jewell, U. S. Navy,
Monday April 25th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M
Clear and pleasant. Light airs and breeze from South and S. S. E. Listening. Riding to flood tide.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M
Clear and pleasant. Light airs from South. at 4 ss sounding to ebb.

A. P. Buchholz
Ensign U. S. N.

From 8 A. M. to Meridian
Partly clear, bright and pleasant. Cir cum clouds. Light airs to breeze from South. Riding to ebb. Clear hawse. at 9 o'c ebb set H. W. by W. 2.6 knots. Scrubbing main mast to fore mizzen mast. cleaning launch and cutter. Boards Officer paid official visits to U. S. Ships "Dolphin" and "Daring".

A. C. Saunderstone.
Ensign U. S. N.

From Meridian to 4 P. M
Clear bright and pleasant. Fresh breeze from South. cleaning ship. Riding to flood after 12:10. Strength of current at 4 P.M 1.0 knots.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M
Clear bright and cloudy. Light cir. clouds first part. Fresh breeze from S. S. E. Employing to ebb from 4 to 5 o'c. Hoisted in steam launch's boiler. Went to quarters for muster at sunset after which remainder hoisted in fore sail, fore hatch gaff and spanker. at 8 o'c ebb set N. W. by N. 2.0 knots. Clear hawse.

A. C. Saunderstone.
Ensign U. S. N.

From 8 P. M to Midnight
Clear bright and cool. Fresh breeze from S. S. E. Rising to 4 knots at 10 o'clock. Listening.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

A. T. Wadhams. First Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Shanghai

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N.W. by W.	S.W.	1-2			30.08	64	58	0	4	b.	nme	10	S
2	"			"	"	2			30.07	64	58	54		"	"	10	"
3	"			N.W.	South	2			30.07	64	58	54		"	"	10	"
4	"			N.W. by W.	"	2			30.06	64	58	54		"	"	10	"
5	"			W.N.W.	"	3			30.05	63	57	52		"	"	10	"
6	Ebb			S.S.E.	"	3			30.05	62	56	53		"	"	10	"
7	"			S.E. by S.	"	3			30.06	62	58	54		"	"	10	"
8	"				"	3			30.08	63	61	56		"	"	10	"
9	"			S.E.	"	2			30.10	65	60	59		"	"	10	"
10	"			S.E. by S.	"	2			30.11	66	68	60		"	"	10	"
11	"			S.E.	S. by W.	2			30.10	64	64	62		"	"	10	"
Noon.	"			"	"	2			30.12	68	74	65		"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 1760 "

Water remaining on hand fit for use at Noon, 2850 "

Coal consumed during the preceding 24 hours, 1 tons 2030 lbs.

Coal remaining on hand at Noon, 44 " 1426 "

P. M.											
1	Slack	S.W.	South	2	30.12	65	68	b.	nme	0	S
2	Flood	N.W. by W.	"	2	30.11	64	64	"	"	10	"
3	"	"	"	2	30.09	64	62	"	"	10	"
4	"	"	S.E.	1	30.08	64	62	"	"	10	"
5	Ebb	W. by N.	"	1	30.08	64	62	"	"	10	"
6	"	S.E. by S.	"	1	30.08	64	62	"	"	10	"
7	"	"	"	1	30.09	64	64	"	"	10	"
8	"	S.E.	"	1	30.09	64	64	"	"	10	"
9	"	"	"	1-2	30.10	64	64	"	"	10	"
10	"	"	"	2	30.10	66	64	"	"	10	"
11	"	"	"	2	30.10	65	64	"	"	10	"
Mid.	"	S.E. by S.	"	2	30.10	64	63	"	cir	9	"

under the command of Commander T. F. Jewett, U. S. Navy,

Tuesday April 26th, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences AM until 4 A.M.
Clear cool & pleasant. Light breze from S.W. first half and South last half of watch. Towing to flood tide at 12: 30.

F. J. Loomis
Ensign U.S.N.

From 4 to 8 A.M.
Clear bright and pleasant. Gentle breze from South. at 4 o.c. Moored ship E. & W. by C. 1.0 Shot. Towing to ebb at 5 o.c. Clear hawse. Got steam launch's boiler into her. Scrubbing yards & doublings of masts. Scraped main bitt and spanker gaffs. Crossed light yards at 8 o.c.

A. Comstock
Ensign U.S.N.

From 8 A.M. to Meridian
Clear bright & pleasant. Light breze from South & S.W. at 9: 35 went to quarters for muster afterwards mustered landing party equipped in heavy marching order. Riding to ebb current, at 11 A.M. 2.5 Shots. Received 20 grate bars for galley.

W. B. Hoggatt
Ensign U.S.N.

From Meridian to 4 P.M.
Clear warm & pleasant. Light breze from South. Scraping spars. Distilling. Sent an officer to board Chinese Gun-boat "Ta Lai."

F. J. Loomis
Ensign U.S.N.

From 4 to 8 P.M.
Clear bright & pleasant. Light airs from S.E. Riding to ebb tide at end of watch. Scraped spars Mustered at quarters at 6. 30 & served out clean hammocks. Afterwards called all hands to muster & read rules of Board. Officer with regard to qualification for conduct Grades etc. Chapel distilling & baked pies in boilers 1 & 3 at 4: 30.

W. B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight
Clear & pleasant. Light breze from S.E. Riding to ebb tide.

F. J. Loomis,
Ensign U.S.N.

Examined and found to be correct.

S. W. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Variable													
1		Flood		N.W.	S.E.	3			30.08	64	63	61		b.c.	cir	9	S.
2		"		"	"	3			30.06	64	63	60		"	"	9	"
3		"		"	"	3			30.04	65	62	60		"	"	9	"
4		"		N.W. by W.	"	3			30.04	65	62	60		"	"	9	"
5		"		"	South	1-2			30.05	65	62	60		b.	Nmc	10	"
6		Ebb		W. by S.	"	1			30.04	65	64	60		"	"	10	"
7		"		S.E.	"	1			30.09	66	63	61		b.c.	cir cum	8	"
8		"		"	"	1			30.11	66	64	61		"	"	9	"
9		"		S.E. by S.	"	3			30.12	68	68	63		"	"	5	"
10		"		"	"	3			30.13	70	69	64		"	"	5	"
11		"		"	"	3			30.13	70	70	64		"	"	5	"
Noon.		"		"	"	3			30.10	71	71	64		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 150 "

Water remaining on hand fit for use at Noon, 2650 "

Coal consumed during the preceding 24 hours, 1 tons 1100 lbs.

Coal remaining on hand at Noon, 43 " 326 "

P. M.											
1	Ebb	S.E.	S.S.E.	3-4	30.09	64	63	69	b.c.g.	cir cum	4 S.
2	Flood	N.W. by W.	"	3-4	30.06	62	62	64	"	"	2 "
3	"	"	"	3-5	30.03	61	61	64	"	"	2 "
4	"	"	"	3-5	30.02	62	62	65	"	"	8 "
5	"	W. by W.	"	3-4	30.01	61	60	64	"	"	6 "
6	Ebb	S. by E.	"	3-4	30.01	70	68	63	"	"	4 "
7	"	S.E. by S.	"	3-4	30.01	68	64	63	"	"	4 "
8	"	"	"	3-4	30.00	68	64	63	"	"	4 "
9	"	"	"	3-4	30.00	64	66	62	o.c.	"	0 "
10	"	"	"	3-4	30.00	64	66	62	"	cum nimb	0 "
11	"	"	"	3-4	30.00	67	66	63	o.c.	"	0 "
Mid.	"	"	"	3-4	29.99	67	66	63	o.c.	"	0 "

under the command of Commander T. T. Jewell, U. S. Navy,

Wednesday April 2nd, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends at 4 A.M.

Clear wind & pleasant. Heavy dew. Light breeze from S.E. Bright starlight. Ship rowing to flood at 12.30. House clear.

C. H. Galloway Lieut & U.S.N.

From 4 to 8 A.M.

Clear bright & pleasant. Light airs from South. Rowing to obs at 5 a.m. Received 131 lbs fresh beef, 131 lbs fresh vegetables & 100 lbs fresh bread.

W. B. Hoogs Ensign U.S.N.

From 8 A.M. to Meridian

Fair. Fresh breeze from South. At 9.30 mustered & inspected at quarters & immediately after mustered at Stations for abandoning ship. Ship riding to obb tide.

T. J. Loomis Ensign U.S.N.

From Meridian to 4 P.M.

Fair & pleasant. Stiff breeze from S.S.E. with fresh squalls. Engaged scraping pin & pipe rails. Watch in came alongside at 1 p.m. and took engine valve for repairs. Ship rowing to flood at 1.55. Started distiller at 3.55 "

C. H. Galloway Lieut U.S.N.

From 4 to 8 P.M.

Fair & pleasant weather. Gentle to moderate breeze from S.S.E. Exercised apprentices at Signals. At 5.30 rowing to obb tide. Hoisted out boiler of steam cutter. At 6 p.m. mustered at quarters.

T. J. Loomis Ensign U.S.N.

From 8 P.M. to Midnight

Overcast with light rain. Gentle to moderate breeze from S.S.E. At 9 p.m. Tanks being full stopped distilling & hauled fires in boilers 1 & 3. Ship riding to obb. House clear. At 6 p.m. sent down light yards.

C. H. Galloway Lieut U.S.N.

Examined and found to be correct.

A. T. Wadhams. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ship's Head													
A. M.																	
1	Ebb			S.E. by S.	S.S.E.	3-4			29.99	64	66	63		b.c.p.q.	cum & cum	0	S
2	Flood			N.W.	"	3-5			29.96	64	66	63		b.c.h.	cir-cum	2	"
3				N.W. by W.	"	3-5			29.93	64	66	63		"	cum-cirr	4	"
4				"	"	3-5			29.91	64	66	63		b.c.q.	"	1	"
5				"	"	3-5			29.91	64	65	63		o.c.q.	"	1	"
6	Flood			W. by N.	"	3			29.91	64	66	64		o.c.h.	cir-cum cir-cum	3	"
7	Ebb			S.E. by E.	"	3			29.90	64	66	64		o.c.h.	cum-cirr	0	"
8				"	"	2			29.90	64	66	64		o.c.r.	"	0	"
9				"	"	2			29.92	68	66	65		"	"	0	"
10				"	"	2			29.92	68	66	65		"	"	0	"
11				S.E.	"	2			29.90	68	65	64		"	"	0	"
Noon.				"	"	2			29.89	64	65	64		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 500 "

Water remaining on hand fit for use at Noon, 2750 "

Coal consumed during the preceding 24 hours, tons 1480 lbs.

Coal remaining on hand at Noon, 42 " 1086 "

P. M.														
1	Ebb	S.E. by S.	S.S.E.	3-4	29.83	66	65	64	o.c.r.q.	cum & cirr	0	S		
2	"	S. by E.	"	3-5	29.80	68	64	65	b.c.q.	"	2	"		
3	Flood	N.W. by W.	"	3-5	29.76	68	67	65	o.c.d.q.	"	0	"		
4	"	"	"	3-5	29.74	68	67	65	"	"	0	"		
5	"	"	"	3-5	29.74	68	67	65	o.c.q.	"	0	"		
6	"	W. by N.	"	3-4	29.74	68	67	65	"	"	0	"		
7	Ebb	S.E. by S.	"	2-4	29.74	68	67	65	o.c.q.h.	"	0	"		
8	"	S.E.	"	2-4	29.74	68	67	65	"	"	0	"		
9	"	"	"	3	29.74	67	66	65	o.c.r.q.	"	0	"		
10	"	"	"	1-2	29.78	67	66	65	o.c.r.	"	2	"		
11	"	"	"	1	29.79	67	66	65	b.c.h.	"	4	"		
Mid.	"	"	"	1	29.79	67	66	65	b.c.	"	3	"		

under the command of Commander T. F. Jewell, U. S. Navy,
Thursday April 28th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Cloudy weather with passing showers first & last hours. Gentle to stiff breeze in squalls from S.S.E. At 1:00 commenced bringing ship and at 1:20 moving to flood. Hawse clear.

B. F. Waring
Lieut U.S.N.

From 4 to 8 A.M.
Cloudy weather with drizzling rain. Hoisted steam cutters boiler in place. At 8:00 French frigate "Primauguet" came in and anchored off port bow

F. Goodwin
Ensign U.S.N.

From 8 A.M. to Meridian.
Overcast with heavy rain. Light breeze from S.S.E. At 9:30 mustered at quarters. Suspended exercises on account of weather. At 8:10 sent an officer to pay official visit to French frigate "Primauguet" returning usual courtesies. Released from confinement W. F. McClellan, Q.M. 2d, his time having expired, by order of Com'dg Officer. Cleaned bright work. Received provisions.

C. H. Holloway
Asst Surg U.S.N.

From Meridian to 4 P.M.
Overcast with passing showers. Gentle to fresh breeze in squalls from S.S.E. Eu Poo Lds, and Shiga Manabe, Lds, were this day discharged from this ship & the Naval Service: both waiving claim for public transportation. At 1:45 commenced bringing ship at 2:45 moving to flood. Received on board in substitution Dept. eight (8) 3/4"x10" air sight lights. Commanding Officer of French frigate "Primauguet" paid an official visit to this vessel.

B. F. Waring
Lieut U.S.N.

From 4 to 8 P.M.
Overcast with rain latter part. Lightning to S.W. Moderate breeze from S.S.E. At 6:15 ship moving to wind & ebb tide. Cleared hawse. Barometer falling. At 6:30 mustered at quarters.

C. H. Holloway
Asst Surg U.S.N.

From 8 P.M. to Midnight
Rainy weather first two hours. Clearing last two. Light airs to gentle breezes from S.S.E. Riding to the ebb. Hawse clear.

B. F. Waring
Lieut U.S.N.

Shipped for the cruise, as Landsmen Kim Ke.

Examined and found to be correct.

S. V. Wadhams. Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			S S E.	West	2			29.80	64	64	66		o.c.	cum-strat	0	S
2	Flood			N W.	W N W.	2-3			29.78	68	68	64		o.c.dg.	"	0	"
3		"		"		2			29.78	68	64	66		"	"	0	"
4		"		"	N W.	2			29.81	64	64	65		o.c.	"	0	"
5		"		"	"	2			29.84	64	66	64		o.c.	"	2	"
6		"		"	"	2			29.84	64	66	64		o.c.d.	"	0	"
7		"		N W by N.	"	2			29.90	65	64	62		"	"	0	"
8		"		N N W.	N N W.	2			29.93	63	64	62		o.c.	"	0	"
9	Ebb			S E by E	"	2-4			29.96	65	63	62		"	"	0	"
10		"		"	"	2-4			29.99	66	64	62		"	"	0	"
11		"		"	"	2-4			30.00	66	63	61		"	"	0	"
Noon.		"		"	"	2-4			30.01	65	62	60		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 4 ton gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2350 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 42 " 686 "

P. M.										
1	Ebb	S E by E.	N N W	3	30.02	66	62	60	cum-cirr	0 S
2		"	"	3	30.03	66	62	60	"	0 "
3	Swinging	N W by N.	"	3	30.03	66	62	60	cir-cum	3 "
4	Flood	N W.	"	3	30.03	66	62	59	"	6 "
5	"	"	"	3	30.03	65	62	59	"	8 "
6	"	N W by N.	N N E	3	30.05	66	62	58	"	9 "
7	"	N N W.	"	2	30.06	65	61	57	"	9 "
8	Swinging	E by S.	North	2	30.08	64	59	56	cir	10 "
9	Ebb	S E by E.	N N E.	1	30.11	65	59	56	"	10 "
10	"	"	"	1	30.13	65	59	56	"	10 "
11	"	"	North	1	30.15	65	59	56	"	10 "
Mid.	"	"	"	1	30.16	64	58	55	"	10 "

under the command of Commander T. F. Moore, U. S. Navy,
Friday April 29th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and unfit 4 A.M.
Cloudy with rain at intervals. Light to gentle breeze from N.W. to West. Sowing to flood at 1.50.

C.A.T. Jeffers
Ensign U.S.N.

From 4 to 8 A.M.
Overcast with light drizzle at times. Light breeze from N.W. Ship sowing to ebb at 8. Crew in Cabin. Received on Provisions for use of crew 131 lbs beef, 131 lbs vegetables, 105 lbs bread.

Lee Pearce
Asst Surg U.S.N.

From 8 A.M. to Meridian.
Overcast weather. Light to moderate breezes from N.N.W. At 9:30 mustered and inspected at quarters. Drills as per routine. Instructed Torpedo Division at Stations. Instructed Signal Class. Commanding Officer paid official visit to English Corvette "Firebrand" and French Corvette "Primaguet". Enlisted for the cruise Ah Sings Landsman. At 8:45 finished sowing to ebb. Crew in Cabin.

L.B. Dougherty
Lieut U.S.N.

From Meridian to 4 P.M.
Cloudy until last hour, when pleasant, and partially cloudy. Gentle breeze from N.N.W. At 2 to sowing to flood. Clean Cabin. Painting Spars.

C.A.T. Jeffers
Ensign U.S.N.

From 4 to 8 P.M.
Clear and pleasant. Gentle breezes from N.N.W. Light breezes from North and N.N.E. At 4. commenced sowing to ebb. At 6:15 mustered at quarters. Sounded Fire Alarm. All streams in 2 minutes.

L.T. Darling
Lieut U.S.N.

From 8 P.M. to Midnight
Clear and pleasant. Light airs from North and N.N.E. Ebb tide. Crew in Cabin.

C.A.T. Jeffers
Ensign U.S.N.

Examined and found to be correct.

A.V. Wadhams Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ships Head													
1	Ebb			S Eby E	North	1			30.16	45	55			bc	cir cum	8	S
2	Slowing			E by S		1			30.16	45	55			"	"	8	"
3	Flood			N W.	N W.	1			30.16	45	55			"	"	9	"
4		"		"	W N W.	1			30.15	63	58			"	"	9	"
5		"		"	West	2			30.15	60	52	50		bcum	"	8	"
6		"		"		1			30.16	58	52	50		"	"	8	"
7		"		N W by W.	N W.	1			30.17	58	53	50		"	"	9	"
8		"		N W.		1			30.17	58	55	51		"	"	8	"
9		Ebb		S E by E	N N W.	1			30.20	60	59	54		bc	"	8	"
10		"		"	"	1			30.20	61	61	55		"	"	2	"
11		"		S E		1			30.19	62	64	54		"	"	2	"
Noon.		"		"	N by E	1			30.19	64	66	58		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water rémaining on hand fit for use at Noon, 1950 "

Coal consumed during the preceding 24 hours, tons 1480 lbs.

Coal remaining on hand at Noon, 41 " 1446 "

P. M.											
1	Ebb	S E.	N E.	1	30.18	65	68	60	bc	cir cum	6	S
2	"	S E by E.	"	1	30.16	66	68	60	"	"	6	"
3	"	S E.	"	0-1	30.14	66	68	60	"	"	8	"
4	"	S E.	S E by S.	1	30.12	64	68	60	"	"	8	"
5	Slowing	"	W N W.	1	30.11	64	69	62	"	"	9	"
6	Flood	"	N W.	1	30.10	64	69	62	"	"	7	"
7	"	"	W N W.	1	30.10	64	64	60	"	"	6	"
8	"	"	S E by S.	1	30.10	64	62	58	"	"	9	"
9	"	S E by E.	S E.	1	30.11	63	59	55	"	"	9	"
10	Ebb	"	"	1-2	30.09	60	58	54	"	"	9	"
11	"	"	"	1-2	30.04	60	58	54	"	"	8	"
Mid.	"	S E.	"	1-2	30.06	65	63		bcum	cum	9	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday April 30th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Party clear with cir. cumn clouds. Bright starlight. Fresh light airs from North to W. N. W. at 12 Mc. Ebb set N. by W. 2 knots. Commenced swinging to flood at 2 12 M. finished at 2 20 M. at 4 Mc flood set S. E. 2 knots. Clear hawse at and of watch.

H. C. Poundstone
Ensign U. S. N.

From 4 to 8 A. M.

Clear and cool. Light airs and breezes from West. Light airs from N. W. English Grotto "Firebrand" left the harbor. Hawse clear

P. R. Waring
Lieut U. S. N.

From 8 A. M. to Meridian.

Clear and warm. Light airs from N. by E. to N. N. W. Ebb tide. Gone in hawse. By order of Commander placed C. M. Dolan, Sea App 2 C, on bread and water for three days, for insolence to an officer.

A. L. Key
Ensign U. S. N.

From Meridian to 4 P. M.

Generally clear with cir. cumn clouds. Bright and warm. Riding to ebb tide at end of watch when commenced to swing. Lost overboard, accidently one of gigs pad locks. At 1 20 M. ebb set N. W. 2.6 knots. A Chinese gunboat left the harbor. Sent a liberty party, ashore. Painting poop deck. Gone in hawse.

H. C. Poundstone
Ensign U. S. N.

From 4 to 8 P. M.

Clear and pleasant with light airs from N. W. and W. N. W. at 4:30 swung to flood and at 7:30 to ebb. Clear hawse.

A. L. Key
Ensign U. S. N.

From 8 P. M. to Midnight.

Clear, bright starlight cool. Light cir. cumn clouds. Hazy around horizon last hour. Light airs to breeze from S. E. Riding to ebb which set N. W. 1.8 knots at 11 Mc. Clear hawse.

H. C. Poundstone
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Ussel", 3d Rate,

Wooded in the harbor of Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			S E	S E	2			30.03	62	55	52		bc	cir cum	9	S
2	"				"	2			30.00	60	54	52		"	"	9	"
3	"			S E by S	"	2			29.99	58	54	51		"	"	9	"
4	Flood			N W by W	"	2			29.94	58	54	52		"	"	9	"
5	"			N W	"	1-2			29.96	58	56	52		"	"	8	"
6	"			"	"	1-2			29.96	58	56	54		"	"	6	"
7	"			N W by W	South	1-2			29.96	60	57	55		"	"	5	"
8	"			W N W	"	1			29.94	60	58	55		"	cumulus	4	"
9	Slowing to Ebb			S by E	"	2			29.94	61	61	55		bc	cum	0	"
10	Ebb			S E by S	"	2			29.93	62	64	56		"	"	0	"
11	"			"	"	2			29.94	63	65	57		"	"	0	"
Noon.	"			"	"	2			29.92	65	67	59		bc	cir cum	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1550 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 41 " 1026 "

P. M.																
1	Ebb		S E	S S E	2		29.90	66	69	60		bc	cir cum	4	S	
2	"		"	"	2		29.89	66	69	60		"	"	2	"	
3	"		"	"	2		29.88	64	69	60		bc	cumulus	0	"	
4	"		S E by S	South	2		29.84	64	69	60		"	"	0	"	
5	"		S S E	"	2		29.88	64	68	61		"	"	0	"	
6	Flood		N W	Calm	0		29.88	64	68	62		"	"	0	"	
7	"		"	South	1		29.88	64	64	63		"	"	0	"	
8	"		"	"	1		29.84	64	64	63		bch	"	0	"	
9	"		W N W	S E	1		29.88	64	66	62		"	"	0	"	
10	Ebb		S E	"	1		29.89	64	65	62		"	"	0	"	
11	"		"	"	1		29.88	66	64	62		"	"	0	"	
Mid.	"		"	"	1		29.88	66	64	62		bc	"	0	"	

under the command of Commander T. F. Jewett, U. S. Navy,
Sunday May 1st, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A.M.
Clear and pleasant. Light breeze from S.E. Sowing to flood at 3.0.

T. F. Downing
Ensign U. S. N.

From 4 to 8 A.M.
Weather pleasant, cloudy towards end of watch. Light breeze from South and S.E. Flood tide. Placed J. C. Davitt, Seaman, under Master's charge to await his getting sober.

W. F. Rodgers
Ensign U. S. N.

From 8 A.M. to Meridian.
Partly clear, pleasant weather. Cumulus and cirro cumulus clouds. Light breeze from South Sowing to ebb from 8 to 9 o'c. At 12 o'c, ebb set N.W. by N, 1.8 knots. At 9.30, Sunday Officer inspected ship with crew at quarters. After quarters held General Muster, published articles of war and Navy Dept. G.O. No. 359 of 1864, Abstract Station G.O. No. 3, 1864 and Station G.O. Orders Nos 4 and 8. Absent without leave, H. H. C. Sunday. 1st Class, 1 Fireman 2 C.F. W. L. Chappell, Oiler, John Hudson 2 C.F. the last named having left the ship without permission. Clear hawse.

H. C. Comerford
Ensign U. S. N.

From Meridian to 4 P.M.
Fair weather clouding over last part of watch. Light breeze from S.S.E. Ship riding to ebb tide. Clear hawse.

T. F. Downing
Ensign U. S. N.

From 4 to 8 P.M.
Overcast and cloudy. Clouds cumulus and cumulo. Calms and light airs to breeze from South. Light passing showers last hour. Riding to ebb tide 5.0, slack tide 5.45, when sowing to flood. Clear hawse.

H. C. Comerford
Ensign U. S. N.

From 8 P.M. to Midnight
Overcast and cloudy with light passing showers of rain. Light airs from S.E. at 9.2 sowing to ebb tide. Clear hawse.

T. F. Downing
Ensign U. S. N.

Examined and found to be correct.

A. W. Markham. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.																	
1	Ebb			S. E.	S. E.	1			29.82	66	64	62		b. c.	cum nimb	0	S
2	"			"	"	1			29.82	66	64	62		"	"	0	"
3	"			"	"	1			29.82	66	64	62		"	"	0	"
4	"			S. E. by E.	"	1			29.82	65	64	62		"	"	0	"
5	Flood			N. W. by N.	E by S.	1-2			29.82	64	63	61		"	"	0	"
6	"			N. W.	E. N. E.	1-2			29.89	64	63	61		"	"	0	"
7	"			N. W. by N.	"	1-2			29.91	64	63	61		b. c.	cir cum	4	"
8	"			"	"	2			29.92	65	64	61		"	"	2	"
9	"			"	"	1-2			29.96	67	66	62		"	"	8	"
10	"			"	"	1-2			29.98	68	68	63		"	"	9	"
11	Ebb			N. E.	"	1-2			29.99	69	68	64		b.	nmb	10	"
Noon.	"			East	"	1-2			30.00	70	69	65		"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1150 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 41 " 246 "

P. M.												
1	Ebb	S. E. by E.	N. E.	2	29.98	68	64	63	b. c.	cum	4	S
2	"	"	"	2-3	29.98	68	66	63	"	"	2	"
3	"	"	"	3	29.98	68	65	62	b. c.	cum nimb	0	"
4	"	"	N. E. by N.	3	29.98	66	64	61	"	"	0	"
5	"	"	N. E. by E.	3	30.00	65	62	60	"	"	0	"
Steering to the	Flood	East	"	3	30.02	64	62	59	"	"	0	"
7	Flood	N. W. by N.	"	2-3	30.02	63	60	58	b. c.	cir cum nimb	3	"
8	"	"	"	2	30.03	63	61	58	"	cir cum	4	"
9	"	"	"	1-2	30.05	63	61	58	"	"	5	"
10	"	"	"	2	30.06	62	60	57	"	"	2	"
11	"	"	"	2	30.06	62	60	57	"	"	9	"
Steering to	Ebb	E. N. E.	"	2	30.05	61	60	57	b.	nmb	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday May 2d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at A. M.

Overcast & rainy Light airs from S.E. Tide ebb. Hawse clear. H. Schreuger Sea. returned on board drunk, placed him under charge of sentry for safe keeping. Placed P. Torpey P.M. under sentry's charge to await action of Summary Officer for being drunk & noisy on board deck.

T. D. Galloway Asst. Surg. U.S.N.

From 4 to 8 A.M.

Cloudy at first with cumulus & rainy clouds & rainy appearances, Clearing afterwards with cirro cumulus clouds. Light airs to breeze from E. by S. to E.N.E. Swung to flood, at 4 o. Cross in hawse. At 7 to, flood set S.E. by S. 2 knots.

F. F. Woodbridge Ensign U.S.N.

From 8 A.M. to Meridian

Clear & pleasant weather. Light airs to gentle breezes from N.W. by N. At 9.55 came to for quarter Quarters. Divisions reported ready as follows: 1st 2:30", 2d 1:20", 3d 1:15" Nav. 2:20, Ord 2:45 Eng 1:25", Marines 1:45. Riding the flood tide, until 10:30 when swung to ebb tide. By order of Summary Officer placed H. Schreuger, Sea, in double irons in cell to await the action of a Summary Court Martial. Placed P. Torpey, P.M., under sentry's charge for safe keeping. Received high pressure main valve on board from machine shop. Examined dry gun-cotton primers & found them in good condition. Tested magazine & shell room flood cocks. The following named men were found absent without Leave. H. St C. Ardy, W. Tdr. J. Linden, 2d F. M. Chappell, Asst. Engr. J. Welch S.A. 2 C. J. Downes, Fireman 2 C. O. Rose, S.A. 2 C. H. Lear, B.M. J. Rogers, 2d F. M. C. Reilly, W. Tdr. P. McDonough, C. Hor. J. Hartle, Fireman 2 C. T. Broderick Barber.

F. F. Woodbridge Ensign U.S.N.

From Meridian to 4 P.M.

Clear first part, cloudy latter part. Gentle breeze from N.E. At 10 hoisted out boiler of steam launch for repairs. The Torpedo Officer Ensign Woodbridge took all electrical apparatus, found all in good order except one (boat) portable battery & that he put in order. Engaged painting hoop. Lost from 2d cutter 1 socket for rowlock. At 3 oc exercised Apprentices in signals A & N. Code. Discharged by own request J. Yokohama, Lds.

T. D. Galloway Asst. Surg. U.S.N.

From 4 to 8 P.M.

Cloudy. Gentle decreasing to light breeze from N. E by E. Finished scrubbing to flood tide at 6 o'clock. Cross in hawse. Received U. S. Mail on board. At 4:30 replaced steam cutters boiler.

F. F. Woodbridge Ensign U.S.N.

From 8 P.M. to Midnight

Clear & cloudy. Gentle breeze from N. E by E. Moonlight. At midnight swung to ebb. Hawse clear. J. Rogers, 2 C.F. J. Downes, S.A. 2 C. O. Rose S.A. 2 C. M.L. Reilly, W. Tdr, J. Hartle, S.A. 2 C. T. Broderick, Barber, & J. Welch S.A. 2 C. returned on board at hours overtime. Placed M.L. Reilly, W. Tdr, J. Hartle, S.A. 2 C. T. Broderick, Barber, & J. Welch, S.A. 2 C. under sentry's charge until sober. M. Chappell returned on board 3 9 hrs overtime. P. McDonough C. Hor, returned on board 16 hours overtime: placed him under sentry's charge until sober.

T. D. Galloway Asst. Surg. U.S.N.

Examined and found to be correct.

A. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			S.E. by E.	N.E.	2			30.02	60	59	56		b.	nme	10	S.
2	"			"	"	2			30.01	60	58	56		"	"	10	"
3	"			"	"	1			30.02	59	58	56		"	"	10	"
4	"			S. E.	"	1			30.00	58	58	55		"	"	10	"
5	"			"	N.E. by N.	1			30.02	59	58	55		"	"	10	"
6	"			S.E. by E.	"	1			30.05	60	57	55		"	"	10	"
7	Flood			N.W. by N.	N.N.E.	1			30.04	60	56	54		b.c.	cu-cum	8	"
8	"			"	"	1-2			30.08	60	57	54		"	"	4	"
9	"			"	"	2			30.10	61	58	55		"	"	4	"
10	"			"	"	2			30.10	61	59	55		"	"	4	"
11	Swinging			N.N.W.	"	2			30.10	62	59	56		"	"	8	"
Noon.	Ebb			N.E. by E.	"	2			30.08	62	61	56		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2150 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 41 " 246 "

P. M.	Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
1	Ebb				S.E. by E.	N.E.	1-2			30.08	65	64	59		b.	nme	10	S.
2	"				"	"	1-2			30.08	65	64	59		b.c.	cu-cum	2	"
3	"				"	"	1-2			30.06	66	65	60		"	"	8	"
4	"				"	"	1-2			30.04	66	65	60		"	"	8	"
5	"				S.E.	E. by S. E.	2			30.01	64	63	58		"	"	8	"
6	"				S.E. by E.	East	2			30.02	63	61	57		"	"	9	"
7	"				"	"	2			30.02	62	60	57		"	"	8	"
8	Swinging the flood				N.N.W.	"	1			30.02	60	59	56		"	"	2	"
9	Flood				N.W.	"	1			30.04	60	59	56		"	"	6	"
10	"				"	"	1			30.04	59	58	56		"	"	6	"
11	"				"	"	1			30.04	59	58	56		"	"	6	"
Mid.	"				N.W. by N.	"	1			30.06	60	59	57		"	"	9	"

under the command of Commander T. F. Jewett, U. S. Navy,

Tuesday May 3d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends at 4 A.M.

Clear & pleasant. Light airs & breezes from N. E. Riding to ebb tide. Clear hawse.

F. J. Fooma
Ensign U. S. N.

From 4 to 8 A.M.

Clear pleasant weather. Light airs from N. E. by N. & N. N. E. at 6:00, commenced coaling ship, and at 6:45 stopped to flood. Ends in hawse.

B. F. Walling
Lieut U. S. N.

From 8 A.M. to Meridian

Clear & cool. Light breezes from N. N. E. At 9:00 formed Naval Brigade, heavy marching order & exercised at company drill. Clear P.M. H. Hudson, 2 C.T. and H. St. C. Cundy U.S.T. absent without leave. At 8:00 released from sentry's charge, they being sober. J. Goebel, ord. sea. 2 C., F. J. Broderick, Barber, M. F. Reilly, U.S.T., J. McDonough, Ord. & J. Hartte, Ord. sea. 2 C. Released M. F. Dolan, Coal Pass. 2 C. his time of confinement having expired. Confined C. Torpey, P.M. in double irons for ten days for being drunk & creating a disturbance on board ship. At 11:45 crossed topgallant yards. Lieut. M. Fitzgerald Ord. to Naval Hospital, Chesapeake, in charge of Surgeon of ship. Tide ebb at 11:45. Clear hawse.

C. D. Galloway
Lieut U. S. N.

From Meridian to 4 P.M.

Clear pleasant weather. Light airs & breezes from N. E. Riding to the ebb. Exercised signal class for half an hour. Clear hawse

B. F. Walling
Lieut U. S. N.

From 4 to 8 P.M.

Clear & cool. Light breeze from East. At 6:30 mustered at quarters Absentees H. St. C. Cundy U.S.T. M. Lear B.M. & H. Hudson, 2 C.T. Flood at 8. Ends in hawse. Port chain in hook.

C. D. Galloway
Lieut U. S. N.

From 8 P.M. to Midnight

Clear pleasant weather. Light airs from East. Finished coaling ship at 8:30. Ends in hawse.

B. F. Walling
Lieut U. S. N.

Examined and found to be correct.

A. Markham Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A.M.																	
Employed				S.E.	S.E.	1-2			30.09	60	59	58		bc	cir cum	6	9
2			"	"	"	1-2			30.09	60	59	58		"	"	8	"
3			"	"	"	1-2			30.06	60	58	54		"	"	9	"
4			"	"	"	1-2			30.03	60	58	54		"	"	9	"
5			"	"	S.E. by E.	2			30.02	60	58	54		"	"	3	"
6			"	"	"	2			30.04	61	59	58		"	"	1	"
7			"	"	"	2			30.06	61	60	58		"	"	1	"
Employed	to	Flood	N.W. by W.			3			30.04	62	60	56		"	"	1	"
9			"	N.W.	S.E.	2-3			30.09	63	62	60		"	mist	2	"
10			"	"	S.E.	3			30.10	64	63	60		"	"	2	"
11			"	N.W. by N.	"	3			30.10	66	64	61		"	"	2	"
Noon.			"	"	"	3			30.10	64	66	62		"	cir cum	3	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 351 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 46 " 2086 "

P.M.												
Employed	to	bd	E. by S.	E. by S.	3	30.08	64	62	bc	cir cum	3	9
2	"		S.E. by E.	"	3	30.06	66	60	"	"	4	"
3	"		"	"	3	30.04	66	60	"	"	4	"
4	"		"	"	3	30.03	66	61	"	"	6	"
5	"		"	"	3	30.02	66	60	"	"	2	"
6	"		"	"	3-4	30.02	66	60	"	"	8	"
7	"		S.E.	"	3	30.16	56	59	"	"	8	"
8	Employed	to	Flood	N. by W.	"	2-3	30.00	64	61	"	"	4	"
9	"		"	"	"	2-3	30.02	63	61	"	"	6	"
10	"		"	"	"	2-3	30.03	63	62	bc	mist	10	"
11	"		"	N.N.	"	2-3	30.03	63	62	bc	cir cum	4	"
Mid.	"		"	"	"	2-3	30.04	63	61	"	"	4	"

under the command of Commander T. F. Jewett, U. S. Navy,
Wednesday May 4th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Clear, and pleasant. Light airs from S. E. Ebb tide.
A. F. Leighty
Ensign U. S. N.

From 4 to 8 A. M.
Cloudy damp, and cool. Light breeze from S. E. by E. Received fresh provisions for crew: 12½ lbs beef and vegetables each, and 1 oz lbs bread. At 7h. shifted the flood. Cross in hawse, port, chain on hook. Rigged out sailing launch ready for lowering.
E. G. Alloway
Lieut U. S. N.

From 8. A. M. to Meridian
Cloudy weather. Light to gentle breezes from S. E. & E. S. E. At 9. sounded at quarters. At 9:40 called away all boats & exercised boat crews under oars. By order of Comd'g Officer placed W. F. McCullan, 2 Ca, in confinement on bread & water for five days for obscenity & using profane language.
B. T. Walling
Lieut U. S. N.

From Meridian to 4 P. M.
Clear & pleasant. Gentle breeze from E. S. E. Sewing to ebb at 1h. Clear hawse. At 1h 30m started fires in boilers 1 & 3 for distilling. Exercised Apprentices at signals.
A. F. Leighty
Ensign U. S. N.

From 4 to 8 P. M.
Clear pleasant weather. Light to moderate breezes from E. S. E. Riding to ebb. Clear hawse. Commenced distilling at 6h.
B. T. Walling
Lieut U. S. N.

From 8 P. M. to Midnight
Weather pleasant. Gentle breeze from E. S. E. Flood tide. Cross in hawse. Distilling. At 8h 30m W. B. Emmerson, L T, was found absent from the ship without leave.
A. F. Leighty
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1		Flood		N.W. by N.	E. by E.	2-4			29.99	63	62	60		o.c.	cum nimb	0	S
2		Ebb		S.E.	"	3-4			29.96	63	61	59		"	"	0	"
3		"		"	"	3-4			29.93	63	61	58		"	"	0	"
4		"		"	"	3-4			29.91	63	61	59		"	"	0	"
5		"		"	S.E.	2-4			29.90	62	60	57		b.c.	cir-cum	2	"
6		"		"	"	2-3			29.91	63	61	59		"	"	5	"
7		"		"	"	2-3			29.93	65	63	61		"	"	6	"
8		Slowing to Flood		"	"	3-4			29.94	66	65	62		"	"	4	"
9		"		S.W. by W.	S.E. by S.	4			29.90	67	67	64		o.c.	"	0	"
10		"		N.W. by W.	"	4			29.88	68	67	64		"	"	0	"
11		"		"	"	4			29.84	68	68	65		"	"	0	"
Noon.		"		"	S.S.E.	4			29.84	69	68	65		o.c.d.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 2050 "

Water remaining on hand fit for use at Noon, 20000 "

Coal consumed during the preceding 24 hours, 2 tons 1860 lbs.

Coal remaining on hand at Noon, 38 " 326 "

P. M.													
1	Flood	W. by W.	S. by E.	3-5	29.83	69	69	65	b.c.g.	cir-cum nimb	2	S
2	Ebb	S. by E.	"	3-5	29.83	69	69	66	o.c.g.d.	cum nimb	2	"
3	"	S.E. by S.	"	3-5	29.80	70	69	65	"	"	0	"
4	"	"	"	3-4	29.77	69	68	65	o.c.gr.	"	0	"
5	"	S.E.	"	2	29.76	69	67	65	o.c.r.	"	0	"
6	"	"	"	2	29.76	69	67	65	"	"	0	"
7	"	S.E. by S.	"	2	29.75	68	67	65	"	"	0	"
8	"	"	"	2	29.75	68	67	64	o.c.h.	"	0	"
9	"	"	"	2	29.78	68	66	64	"	nimb	0	"
10	Flood	N.W. by W.	S.W.	2	29.80	69	66	65	"	"	0	"
11	"	N.W.	N.W.	2	29.82	67	67	65	o.c.r.	"	0	"
Mid.	"	"	"	2-3	29.82	66	67	62	"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,

Thursday May 5th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unfits A. M.

Overcast, cloudy and cool. Clouds cum. & cirrus. Light to moderate breze from E. S. E. Riding to flood first part, greatest strength 1.4 knots. Coming to at 2 o'c. At end of watch, ebb running 1.3 knots. Clear hawse. Distilling.

H. C. Pennington
Ensign U. S. N.

From 4 to 8 A. M.

Clear and pleasant. Moderate breze from S. E. Received 4 issued to crew 12 lbs of beef and vegetables 10 lbs fresh bread. Hawse clear.

L. B. Harding
Asst Surg U. S. N.

From 8 A. M. to Meridian

Cloudy & squally generally. Moderate breze from S. S. E. & S. Exercised at sending & unbending sail, then crossed top gallant yards. At 10.35, a Summary Court Martial met on board. Clear hawse.

C. A. Lowry
Ensign U. S. N.

From Meridian to 4 P. M.

Cloudy & squally, drizzling rain 2d hour, raining afterwards. Clouds cu. cum., cum. & cirrus. Strong to stiff breze from S. S. E. Sent liberty party ashore. Exercised at signals (Morse Code). Riding to ebb tide, strength of ebb 1.4 knots. Clear hawse.

H. C. Pennington
Ensign U. S. N.

From 4 to 8 P. M.

Cloudy & raining. Light breze from S. S. E. Ebb tide. Clear hawse.

C. A. Lowry
Ensign U. S. N.

From 8 P. M. to Midnight

Overcast with cumulus clouds. Drizzling first part, embutious rain afterwards. Light breze from S. S. E. 1st hour, S. W. 2d hour, light to, gentle breze from N. W. afterwards. W. P. Murray, B'k'r, came on board 3 3/4 hours over time. Riding to ebb till 9.30. Coming to flood at 9.45. At end of watch strength of flood 1.5 knots. Clear hawse. Stopped distilling at 11.15 & banked fires under distilling boilers.

H. C. Pennington
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N.W.	N.W.	2-3			29.82	65	63	62		o.c.r	cumk	0	S
2	"			N.W. by W.	"	2			29.82	65	64	62		"	"	0	"
3	Ebb			S. by W.	"	2			29.82	65	64	62		"	"	0	"
4	"			S. by E.	"	2			29.83	65	64	62		"	"	0	"
5	"			S.E.	"	2			29.83	65	63	61		o.c.	"	0	"
6	"			"	"	2			29.85	65	63	61		o.c.	cr. cum	4	"
7	"			"	"	2			29.86	66	63	61		"	"	5	"
8	"			"	"	2			29.89	66	63	60		"	"	5	"
9	"			"	"	2			29.91	66	65	62		"	"	6	"
Changing to Flood				N.W.	"	2			29.91	66	65	62		"	"	4	"
11	"				West	2			29.92	66	66	63		"	"	8	"
Noon.	"			N.W. by W.	"	2			29.90	68	66	64		"	"	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 1150 "

Water remaining on hand fit for use at Noon, 22150 "

Coal consumed during the preceding 24 hours, 1 tons 680 lbs.

Coal remaining on hand at Noon, 36 " 12186 "

P. M.														
1	Flood	N.W. by W.	W. & W.	3		29.88	70	70	65	t.c.	cr. cum.	8	S
2	"	"	"	3		29.85	71	71	65	"	"	8	"
Changing to Ebb		West	"	3		29.85	72	72	66	"	"	8	"
4	"	S.E. by S.	"	3		29.85	73	73	67	"	"	4	"
5	"	"	"	2		29.84	74	74	67	"	"	6	"
6	"	S.E.	W. N.W.	1-2		29.84	74	74	68	"	"	7	"
7	"	"	North	1		29.88	73	73	68	"	"	4	"
8	"	"	Calm	0		29.90	72	72	67	t.cu	"	8	"
9	"	"	"	0		29.94	71	70	67	"	"	6	"
Changing to Flood		N.W.	"	0		29.98	70	68	66	"	"	6	"
11	"	"	"	0		29.99	68	67	65	"	"	5	"
Mid.	"	"	"	0		29.98	68	66	65	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday May 6th, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.

Overcast, cloudy & raining. Light breez from N. W. Ship moving to ebb at 2 hrs. Clear hawse. J. F. Gibbity, S. A. 2 C. & J. H. Williams, 2 C. A., returned to the ship having left without permission & were placed under the Sentry's charge by order of the Duty Officer.

Wm. Hoggatt
Ensign U. S. N.

From 4 hrs. 8 A. M.

Cloudy. Clearing towards end of watch. Light breze from N. W. Cleared bilges. Ebb tide. Clear hawse.

A. F. Keeler
Ensign U. S. N.

From 8 A. M. to Meridian.

Partly clear with cir. cum. clouds. Bright & warm. Light breze from N. W. 1st part. West. latter part. Sch. came alongside at 9 35, began coaling at 9 50. Went to quarters for muster at 9 30. Summary Court Martial for trial of W. B. Eubank, L. T., met at 10 00. Overhauled sounding wire. Summary Court Martial adjourned at 10 30. Absent quarters without permission, H. St. C. Curdy, U. Tar, John Hayden, & C. F. & K. Tar. Bth. N. Tar, Bth, came on board 100 4 hours overtime. Riding to ebb till 9 30. At 8 45, ebb set N. W. 2.6 knots. Going to flood at 9 50. At 11 20 flood set S. E. 2.8 knots. At 11 55, 2d coal lighter came alongside. At end of watch had received 28 tons of coal. Hawse clear.

N. C. Stanhope
Ensign U. S. N.

From Meridian to 4 P. M.

Clear & pleasant. Gentle breze from W. S. W. Coaling ship. Received during watch 33 tons. Finished stowing to ebb at 3.35. Overhauled sounding wire.

Wm. B. Hoggatt
Ensign U. S. N.

From 4 hrs. 8 P. M.

Partly clear with cir. cum. clouds. Bright & pleasant. Light variable airs to breze till last. fourteen calm. Finished coaling at 5 00, have received on board 69 96/2240 tons, altogether. Beached fm. hold. Washed down decks & cleaned paint work. Riding to the tide. Ebb set N. W. 3 knots at 7 00. Clear hawse.

N. C. Stanhope
Ensign U. S. N.

From 8 P. M. to Midnight

Partly clear & pleasant. Calm. Going to flood at 10 20. Clear hawse.

Wm. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

A. W. Watkins. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Shanghai.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			N.W.	S.E.	0-1			29.96	66	66	64		bc	cumu	4	S
2	"			"	"	1			29.95	66	65	63		"	"	6	"
3	"			"	"	1			29.92	65	65	63		"	"	6	"
4	"			S.E.	"	1			29.94	65	65	63		"	"	4	"
Slowing to Ebb	"			S.E. by E.	"	1			29.95	65	64	62		"	cir cumu	4	"
6	"			S.E.	"	1			29.96	66	64	62		"	"	6	"
7	"			"	"	1			29.98	68	65	63		"	"	6	"
8	"			"	"	1			30.00	69	68	65		"	"	8	"
9	"			"	"	2			30.02	72	72	64		"	"	9	"
10	"			"	"	2			30.05	75	74	69		"	"	9	"
11	Flood			N.W. by W.	"	2			30.05	74	75	70		"	"	9	"
Noon.	"			N.W. by N.	S.S.E.	2			30.09	76	76	70		bc	none	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 4 bar gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2350 "

Coal consumed during the preceding 24 hours, tons 1300 lbs.

Coal remaining on hand at Noon, 106 " 486 "

P. M.											
1	Flood	N.W.	S.S.E.	1	30.03	74	74	71	bc	rain	10	S
2	"	"	"	2	30.01	74	74	70	bc	cir cumu	8	"
3	"	N.W. by N.	"	2	30.00	80	74	70	"	"	8	"
4	"	S.E.	S.E.	2	30.00	80	74	70	"	"	9	"
5	Slowing to Ebb	"	S.E. by E.	2	29.98	76	74	68	"	cir strt	8	"
6	"	"	"	2	29.94	74	73	64	"	"	8	"
7	"	"	"	2	29.98	72	70	65	"	"	4	"
8	"	"	"	2	29.98	70	68	64	"	"	6	"
9	"	"	"	2	29.98	69	66	63	"	"	8	"
10	"	"	"	2	29.99	68	66	62	"	"	8	"
Slowing to Flood		S. by E.	"	3	29.97	64	65	61	"	"	7	"
Mid.	"	N.W. by W.	"	3	29.98	64	65	62	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday May 7th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unties A. M.
Clear & pleasant. Light airs from S.E. Moving to ebb tide at 4.30 P.M. Hawse, clear.

F. F. Toomis
Ensign U. S. N.

From 4 to 8 A. M.
Generally clear with cirrus clouds. Bright & pleasant. Light S.E. airs. Riding to ebb. at 8 o'c, ebb sets N.W. Clear hawse.

H. Stonestone.
Ensign U. S. N.

From 8 A. M. to Midnight
Clear & pleasant. Light breeze from S.E. & S.S.E. At 10.50 called all hands bend sail. Bent topsails, fore sail & fore topmast staysail. Sent down top gallant yards & finished preparations for bending light sails. At 11.25 Summary Court martial adjourned until 10 A. M. Monday the ninth inst. Moving to flood at 11 A. M. Clear hawse.

W. B. Woggatt
Ensign U. S. N.

From Meridian to 4 P.M.
Clear, warm & pleasant. Light to gentle breeze from S.S.E. at 1.00, crossed top gallant yards & sent flying jib, main topsail & royals. At 3.30 moving to ebb tide. Cross in hawse. Starboard chain in hat. Shipped for the cruise, as Landsman Ezra Lewis.

F. F. Toomis
Ensign U. S. N.

From 4 to 8 P.M.
Clear & pleasant. Light breeze from S. & by E. Riding to ebb. Cross in hawse, starboard chain in hat. Received in Commanders dept 200 galls steam oil, 100 galls crane oil, 100 lbs Tallow, 100 lbs oakum, 150 iron rivets bolts & 6 globe valves. Strength of current at 7.15, 2.2 knots setting N.W.

W. B. Woggatt
Ensign U. S. N.

From 8 P.M. to Midnight
Generally clear weather. Light to gentle breeze from S. & by E. At 11.00 moving to flood tide. Elbow in hawse.

F. F. Toomis
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Ess", 3d Rate,

Moored in the harbor of Shanghai

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.																	
1	Fleet			N.W. by W.	South	1-2			29.98	64	65	62		b.c.	cir cum.	6	S
2		"		"	"	2			29.94	64	65	62		"	"	5	"
3		"		"	"	2			29.93	67	64	61		"	"	6	"
4		"		"	"	2			29.91	67	64	61		"	"	6	"
5	Ebb			S. E. by S.	S. by E.	2			29.91	65	63	60		"	"	5	"
6		"		"	"	2			29.93	65	63	60		"	"	3	"
7		"		"	"	2			29.95	66	64	61		"	"	3	"
8		"		S. E.	"	3			29.96	68	66	62		b.c.y.	"	2	"
9		"		S. E. by S.	"	3			29.96	70	69	63		b.c.	"	6	"
10		"		"	"	3			29.96	72	71	64		"	"	7	"
11		"		"	"	3			29.96	74	73	66		"	"	7	"
Noon.	Fleet			N. W.	"	3			29.95	76	75	68		"	"	6	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by bearings of Gutzlaff Light House N 30 ° 54 "
- Longitude by do E 122 ° 13' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1990 "

Coal consumed during the preceding 24 hours, 1 tons 250 lbs.

Coal remaining on hand at Noon, 105 " 236 "

P. M.																	
Sailing Underway				E. by N.	South	2			29.94	74	74	70		b.c.	cir cum.	5	S
2				N. N. W.	"	2			29.94	78	74	70		"	"	5	"
3				N. N. E. 1/2 E.	"	2			29.91	79	78	71		"	"	5	"
4				S. E.	"	2			29.89	74	74	67		"	"	6	"
5				S. E. 1/2 S.	"	2-3			29.90	74	74	67		"	"	4	"
6	6		29.0	S. E. by E.	S. by E.	2-3			29.93	74	69	67		"	cumulus	3	"
7	3	6	34.9	S. E.	"	2-3			29.92	70	69	67		"	"	3	"
8	4	4	43.3	S. E. by S.	"	2-3			29.92	70	68	65		"	"	4	"
9	4	9	50.2	"	"	3			29.93	68	66	64	63	"	"	4	"
10	4	10	54.4	E. by E.	"	3			29.90	68	66	64	64	"	"	2	"
11	4	10	58.4	S. E.	"	3			29.90	66	65	63		o.c.	"	0	"
Mid.	1	5	59.9	Head	S. E. by S.	"	3			29.90	66	65	63		o.c.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday May 8th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.

Fair and cool. Gentle breeze from South. Slack water high at 9h. 0m. at 4 ebb tide. Cross in hawse, starboard chain on top. Bright moonlight. Barometer falling rapidly.

E. Galloway
Lieut U. S. N.

From 4 to 8 A. M.

Partially clear and pleasant. Light to gentle breeze from S. by E. Cross in hawse, starboard chain on top. Ebb tide, current 4: 2.2 knots setting N. W.

W. B. Haggatt
Ensign U. S. N.

From 8 A. M. to Meridian

Fair to clear weather. Gentle breeze from S. by E. Coming to flood tide at 11.30. Elbow in hawse. Cleared hawse and called all hands up, anchor at 12 oc. Hove up port anchor. By order of Midg Officer Herbert St. C. Cundy, U.S.N. and John Hadsen, 2. C. F. were this day declared deserters. Making preparations for sea.

H. Fowler
Ensign U. S. N.

From Meridian to 4 P. M.

Clear and warm. Gentle breeze from South. At 12h. 9m. got underway and stood down river. pilot at conn. Passed Wosung Bar at 2.45. Steps. Six boilers. Draft 17ft 8in fwd - 16ft 8in aft.

E. Galloway
Lieut U. S. N.

From 4 to 6 P. M.

Cloudy pleasant weather. Light to gentle breezes from South to S. by E. Standing down river under conn of pilot. at end of watch Tung Sha Light Ship bore E. by E. distant 3 miles. Under six boilers. Smooth sea.

E. W. Wall
Lieut U. S. N.

From 6 to 8 P. M.

Partially cloudy. Light to gentle breeze from S. by E. At 6.12 Tung Sha Light ship bore N. E. by N. distant 1/8 mile. Put over patent log reading 29. At 6.30 changed course to S. E. P. 2. 3.16 and at 7.35 to S. E. by S. P. 2 to 1. At 6.45 muster at quarters and secured battery.

H. S. F. Schultz
Ensign U. S. N.

From 8 P. M. to Midnight

Partly clear first part, from shoreing occasionally. Light scud from S. E. Clouds cumulus and rainy. Overcast latter part. thick fog from 10 to 11 oc. Fog lifting last hour. Gentle breeze from S. by E. Steaming down Yangtze River. At 8 to Gutzlaff Light House 3m abeam (Sooby 8), distant about 8 miles. At 9 oc changed course to E. by S. P. 2 to 4. At 10m, closed to mile and at 10h stopped. At 10h 7m, let go starboard anchor in 9 fms water veering to 3 fms at waters edge. Gutzlaff light bearing (p.c) by N. W. 3/4 W. Riding to flood setting N. W. 2.5 knots. Banked fires. Hauled in P. 2 at 10h, reading 529. Draft fwd 17ft. aft 16.

H. L. Townsend
Ensign U. S. N.

Examined and found to be correct.

H. H. Adams. Lieut Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

at Sea making passage to Kee-shan Island.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			S S E.	S S E.	2			29.84	64	64	63		o.c.f.	Cumulus	0	S
2	"			W. S W.	"	2			29.85	64	64	63		"	"	0	"
3	"			West	"	2			29.85	64	65	64		"	"	0	"
4	"			"	"	2			29.85	64	65	64		"	"	0	"
5	"		59.9	W. by N.	"	2			29.88	64	65	64		o.c.	"	0	"
6	3	6	62.3	S by E 1/2 E.	"	2			29.90	66	65	65		"	"	0	"
7	2 1/2	2 1/3	68.3	S by E 1/2 E. S. by E. S. S. E.	"	2			29.90	64	65	65	61	"	"	0	"
8	4 1/3	3 1/4	74.2	S S E.	"	2-3			29.92	64	66	65	61	"	"	0	"
9	3 1/2	1/3	81.5	S E 1/2 E. S E. 1/2 E.	South	2			29.91	64	65	64	61	o.c.f.	"	0	"
10	Standing for Anchorage			W. S W.	"	2			29.90	64	65	64		o.c.f.	"	0	"
11	Flood			S. E.	"	2			29.88	64	65	64		"	"	2	"
Noon.	"			South	"	2			29.86	68	64	66		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Pg. 1831

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1630 "

Coal consumed during the preceding 24 hours, 10 tons 325 lbs.

Coal remaining on hand at Noon, 94 " 2151 "

P. M.										
1	Changing to Ebb	W. by N.	S S E	2	29.84	64	64	66	o.c.f. cumulus	0	S
2	6 2	South	"	2	29.86	68	65	64	o.c.f. "	0	"
3	1/3 5	S S E. S by E. 1/2 E.	"	2-3	29.84	68	66	65	o.c.f. cirro	10	"
Standing for anchorage		S. by E.	"	2	29.92	68	66	65	o.c.f. "	10	"
5	Ebb	N. W.	"	2	29.83	68	64	66	f. "	10	"
6	"	South	"	2	29.83	69	64	66	" "	10	"
7	"	N. by W.	"	2	29.81	69	64	66	o.c.f. cumulus	0	"
8	Flood	N. N. E.	"	2	29.81	68	64	66	" "	0	"
9	"	E by S.	South	1	29.82	68	64	66	c.f.d. "	0	"
10	"	East	"	1	29.82	67	66	66	" "	0	"
11	"	E. by S.	North	1	29.82	67	66	66	" "	0	"
Mid.	"	S. E. by E.	"	3-4	29.81	66	65	64	" "	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday May 9th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Overcast cloudy & dank, foggy about horizon. Light breez from S & E. Banked fires in sd boilers. Commenced swinging the ebb tide, at 1.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.

Overcast with light fog passing over first hour. Remainder of watch generally foggy, at times very thick. Gentle breez from S. S. E. At 5m got underway & stood S. by E. 1/2 E. Pilot at comd, P. L. 599. As fog lifted sighted Napier & Bonham Islands. At 6m steering thick from N. W. by N, on bell. At 6m stood S. by E, at 6h N. N. W, at 7m S. S. E. At 15 went ahead fast. Sighted Bonham Light in plain sight also islands on starboard hand. At 17h changed course to S. 2 1/2 E. P. L. 5 p. c, Bonham Light bearing about E. N. E. distant 1 1/2 miles. The fog signal gun was not fired at all the light & islands were completely obscured by fog. Draft of ship fwd 13' 9", aft 15' 9".

Lt. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian.

Foggy with passing showers second & fourth hours. Light breezs from South. At 8:03 changed course to S. E. by E. 1/2 E. & at 8:35 to S. E 1/2 E. At 8:47 slowed to half speed. At 8:50 & under 9:15 steering S 1/2 E to clear fishing boats & net stakes. At 9:15 steered S. E, at 9:20 S. by E & at 9:24 stopped, going ahead slow again at 9:26. At 9:35 changed course to East. stopped at 9:38. At 9:50 started ahead full speed in comd West. At 10. changed to W. S. W, at 10:05 to S. W. Stopped at 10:10 going ahead again at 10:17, slowed at 10:25 & at 10:37 came to with Starboard anchor in 17 fms water veering to 40 fms chain. Draft of ship fwd 13' 9" aft 15' 9". At 9:30 inspected at quarters. At 10:05 Summary Court Martial met pursuant to adjournment and adjourned at 10:40. Banked fires. By order of Comdg Officer released W. F. McCullan, 2. C. G, his term of confinement having expired. Rearing at anchor

D. T. Walling
Lieut U. S. N.

From Meridian to 4 P. M.

Overcast & cloudy with occasional fog. Heavy fog at end of watch. Light to gentle breez from S. S. E. At 2:40 spread fires. At 12:55 called called all hands & got underway. Steamed down towards Shell Island which road on starboard beam at 3:30. The Light House not visible, being enveloped in fog. Blew steam whistle, to which Light House answered by firing 3 successive guns. Exchanged salutes with an English steamer standing to N. At 3:50 anchored to S. & W. 60 fms off Shell Island in 15 fms water sticky bottom with 40 fms on port chain. Exercised apprentices of port watch at signals. Draft of ship fwd 13' 9" aft 15' 9".

C. A. Schetky
Ensign U. S. N.

From 4 to 6. P. M.

Wet, heavy fog. Sky not visible. Light breez from S. S. E. Sounding fog bell. Fired foretop & first gun at 4h, called all hands to muster & published proceedings, finding & sentences of S. C. M. in cases of H. Schreuger, Jr, and W. B. Emerson, Landsman, Sentences respectively as follows. H. Schreuger, Jr, to solitary confinement in double irons on full rations for thirty days & to three months extra police duty. W. B. Emerson, Landsman, to be reduced to the next inferior rating, that of Landsman & to three months extra police duties Sentences were approved by officer ordering the court & senior officer present & H. Schreuger, Jr, confined in accordance with terms of his sentence. Riding to ebb, veering at 4h 10' S. E. by S. 2 9 fms

H. C. Poundstone
Ensign U. S. N

From 6. to 8. P. M.

Overcast & heavy fog. Light breez from S. S. E. Sounding fog bell.

W. B. Hoggatt
Ensign U. S. N.

From 8. P. M. to Midnight

Overcast, foggy with drizzle. Light breez from South first part North latter part & freshening to moderate breez. Ship riding between comd & tide at end of watch.

Examined and found to be correct.

C. D. Galloway
Lieut U. S. N

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor to the S.E. of Sleeh Island

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Flood			E by S	N.N.E.	4-4			29.81	64	62	61		o.cfq	cumh.	0	S
2	Ebb			N.E. by N.	"	4-4			29.82	63	60	58		"	"	0	"
3	"			North	"	5-4			29.85	60	58	56		"	"	0	"
4	"			"	"	5-8			29.86	60	57	56		"d	"	0	"
5	"			N. by W.	"	4-6			29.89	59	58	56		o.c.d.q.	"	0	"
6	"			N.N.W.	"	3-4			29.99	60	58	57		o.cd.	"	0	"
7	"			N. by W.	"	3-4			30.00	60	58	57		"	"	0	"
8	"			North	"	3-4			30.00	60	58	57		"	"	0	"
9	Getting underway				North	3-5			30.02	60	58	57		"q	"	0	"
10	Standing in for an Anchorage				"	3-5			30.03	62	59	57		"	"	0	"
11				East	"	3-4			30.04	62	59	57		"	cum nim	0	S
Noon.				"	"	3-4			30.05	62	58	56		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1240 "

Coal consumed during the preceding 24 hours, 3 tons 1210 lbs.

Coal remaining on hand at Noon, 91 " 9441 "

P. M.														
1			E by N.	North	3-4	30.03	62	60	58	c.d.q.	cum nim	0	S
2			North	"	3-4	30.02	62	59	56	o.cqu.	"	0	"
3			N.W. by W.	N.N.E.	3-4	30.02	62	58	54	"	"	0	"
4			"	"	3-4	30.04	62	58	56	"	"	0	"
5	Ebb		"	"	3-4	30.06	62	58	56	"	"	0	"
6	"		W.N.W.	"	3-4	30.06	62	58	56	"	"	0	"
7	"		"	"	2	30.06	62	59	56	o.c.	"	0	"
8	"		N.N.W.	"	2	30.06	62	59	56	"	"	0	"
9	Steering to Fleet		East	"	2-3	30.10	62	58	56	o.cd.	"	0	"
10	"		"	"	2-3	30.11	62	58	56	"	"	0	"
11	"		"	"	2-3	30.10	62	58	56	o.c.	"	0	"
Mid.	"		E by S.	N.E.	2-3	30.08	63	59	56	"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,
Tuesday May 10th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4 A. M.

Overcast foggy weather. Clearing towards end of watch. Moderate breeze to moderate gale from N. N. E. with heavy squalls. At 12.30 made Sleep. Is Light-House through the fog bearing N. E. ½ E. At 3.30 veered to 60 fms port chain. Sea increasing. Ship swinging to wind at 1.15. At end of watch riding to wind and ebb tide.

D. G. Wagner
Asst. C. S. N.

From 4 to 8 A. M.

Overcast and cloudy with light drizzling rain. Wind from N. N. E. in stiff squalls during first hour; then gentle to moderate. Ebb tide. Strong at end of watch 2 knots. At 4.10 called all hands, and sent down top-gallant yards and masts.

C. A. Jewett
Ensign U. S. N.

From 8 A. M. to Meridian

Overcast with cumulus and nimbus clouds. Drizzling rain. Squalls with gentle to stiff breeze from North. At 8.30 turned engines over and found them ready. Brought to port chain. At 8.40 called all hands up anchor. Got underway at 9.05 and stood to N. and E. in charge of pilot. At 9.55 called all hands bring ship to anchor and at 10.25 came to with port anchor (45 fms from bitts) in Baker Rock Bay, in 9 fms water. Bearing (pts) Eden Point Peak N. E. 3/4 E. Baker Rock N. W. by W. 5/8 W. Riding to strong flood tide, setting at 11 knots W. by S. 7.8 knots. Draft fwd 13'.5", aft 15'.5". At 10.40 sent whale boat in charge of Lieut Galloway, with Ensign Loomis, Pilot, Chinese Steward, and Interpreter to investigate loss etc of Pilot Boat "Ruby". Banked fires.

A. C. Dennison
Ensign U. S. N.

From Meridian to 4 P. M.

Overcast, squally. Light drizzling rain first hour. Gentle to moderate breeze in squalls from North and N. N. E. Whale boat returned at 3.30. Commenced discharging to ebb at 1 P. M.

W. B. Haggard
Ensign U. S. N.

From 4 to 6 P. M.

Overcast and foul. Moderate breeze from North. Ebb tide.

C. O. Galloway
Lieut U. S. N.

From 6. to 8. P. M.

Overcast with fog. Light breezes from N. N. E. At 6.15 muttered at quarters. At 7.40 commenced discharging to flood.

D. G. Wagner
Asst C. S. N.

From 8. P. M. to Midnight

Overcast and cloudy. Light to gentle breeze from N. N. E. and N. E. Flood tide.

C. A. Jewett
Ensign U. S. N.

Examined and found to be correct.

A. Marix Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor in Peaked Bay.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1			Flood	E. by S.	N. N. E.	3			30.07	61	58	56		p.cu.	cum. cirr.	0	S.
2			Ebb	E. S. E.	"	2			30.06	61	58	56		"	"	0	"
3				W. by S.	"	2			30.05	61	58	56		"	"	0	"
4		1		W. N. W.	"	2-3			30.05	61	58	56		b.cl.	"	0	"
5		1		W. by N.	"	2			30.06	62	59	54		b.cu.	cir. cum. nimb.	1	"
6		"			North	2			30.08	62	59	54		"	"	2	"
7				E. by N.	"	2			30.11	63	58	55		"	"	3	"
8			1.5	N. by W.	"	2			30.11	62	58	55		"	"	3	"
9	8	0	9.5		"	3			30.12	62	59	55		b.cl.	cir. cum.	4	"
10	7	9	17.4		"	3			30.12	62	60	56		"	"	2	"
11	6	4	23.8	N. N. W. 1/2 W.	"	3			30.12	63	60	56		"	"	2	"
Noon.	4	3	29.9	N. N. W. 1/2 W.	"	3			30.11	63	61	56		"	"	8	"
	4	0	33.9	N. W. by N.													
	4	0	37.9	N. N. W.													
	4	0	41.9	N. by W.													

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by ~~observation of ⊙~~ Bearings Smart Isd N. E. of Marrian Isd S. W. by W. 3/4 W. N 30° 42' "

Longitude by ~~chronometer from Forenoon Observations of ⊙~~ Barings Bouhams Light House S. S. E. 1/2 E. E 122° 22' "

07.1031

Position at 8 a. m.: Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M.: Latitude by D. R. N 31° 10' "

Longitude by Chro P. M. Observation E 123° 09' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 910 "

Coal consumed during the preceding 24 hours, 5 tons 1645 lbs.

Coal remaining on hand at Noon, 85 " 1536 "

P. M.														
1	6	0	43.1	N. by E. N. N. E.	N. N. E.	2	30.11	63	61	54	b.c.	cir. cum.	9	S.
2	6	0	49.1	E. by N.	"	2	30.10	63	61	54	"	"	9	"
3	8	3	54.4	"	"	2	30.08	62	60	56	b.	nim.	10	"
4	8	0	60.4	"	"	2	30.08	62	59	56	b.c.	cir. cum.	8	"
5	7	8	73.2	"	N. E.	2	30.04	61	59	56	60	"	cir. str.	8	"
6	7	8	81.0	"	"	2	30.04	60	59	56	60	"	"	8	"
7	7	8	88.8	"	"	2-3	30.04	60	58	56	60	"	"	8	M.
8	7	6	96.4	"	"	2-3	30.04	60	58	56	60	"	"	8	"
9	7	0	104.4	E. N. E. 1/2 E.	"	2	30.04	60	58	56	60	b.n.	nim.	10	"
10	8	0	112.4	"	"	2	30.04	60	58	56	60	"	"	10	"
11	8	0	120.4	"	"	2	30.05	60	58	56	59	"	"	10	"
Mid.	8	0	128.4	"	"	2	30.05	60	58	56	59	"	"	10	"

under the command of Commander T. F. Jewett, U. S. Navy,
Wednesday May 11th, 1859.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.

Overcast cloudy, misty about horizon. Light passing showers last hour. Clouds cum & mist. Light to gentle breeze from N.N.E. Rising to flood tide 1st part. Going to sea, at 2d.

W. C. Poynter
Ensign U.S.N.

From 4 to 8 A.M.

Generally cloudy, clearing toward end of watch. Passing showers first two hours. Light to gentle breez from N.N.E. to North. at 5.40 called all hands up, anchor at 6. stood for Steep Island, pilot, at the comm. at 8.00 took departure. Steep Island Light House S.S.W. (p.c), distant 1.5 miles. Draft of ship fwd 13'-5", aft 15'-7".

W. B. Haggatt
Ensign U.S.N.

From 8. A.M. to Meridian

Fair cool & pleasant. Gentle breez from North. at 8.10 took departure Steep Island Light S.S.W. distant 1.5 miles, P.L. 1.5. at 9.0 Beat Hawsbone E by N. at 9.30 mustered at quarters. at 9.54 exercised at top gallant masts. at 11.30 Bonham Island Light bore E.N.E 3/4 E, distant 1 3/4 miles. Changed course to N by W. Seasmoke.

E. Galloway
Lieut U.S.N.

From Meridian to 4 P.M.

Clear & pleasant. Light breez from N.N.E. at 12.40 sighted Pilot boat & changed course to N.N.E. at 1.40 stopped & discharged pilot. at 1.50 went ahead fore & aft on course E.N.E changing to E by N at 1.55. At 3.55 took departure North Saddle Light House bearing S by E distant 10 1/2 miles. Under steam, six boilers.

D. F. Weeks
Lieut U.S.N.

From 4 to 6 P.M.

Clear & pleasant. Light breez from N.E. Under steam alme. Course E by N. at 5.50 called all hands to muster & published sentences of J. F. Garrity Seaman, and J. A. Williams, 2 C.A., tried by Summary Court Martial for leaving ship without permission. The sentences were as follows. Imprisonment in double irons for thirty days & three months extra police duties. They were, emprisoned accordingly.

C. A. Seaman
Ensign U.S.N.

From 6. to 8. P.M.

Generally clear with light cir. str. clouds. Bright starlight. Cool. Light to gentle breez from N.E. with smooth sea. Moderate swell from N.E. Ship easy. On course E by N, under steam alme. at 7 lost sight of Saddle Islands, bearing as follows North Saddle (p.c) W. S.W, South Saddle (p.c) S.W.

W. C. Poynter
Ensign U.S.N.

From 8. P.M. to Midnight

Clear, pleasant. Hazy dew. Light breez from N.E. at 8.10 changed course to E.N.E 1/2 E. Under steam alme. Smooth sea.

W. B. Haggatt
Ensign U.S.N.

Examined and found to be correct.

A. T. Mahan
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Nagasaki.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	4	6	36.0	E. by E. 1/2 E.	N. E.	1.2			30.08	60	58	56	68	fr.	nmbs	10	g
2	4	5	42.5	"	"	1.2			30.04	60	58	56	68	"	"	10	"
3	4	6	51.5	"	"	1.2			30.04	60	58	56	68	"	"	10	"
4	4	4	58.5	"	"	2.3			30.04	60	58	56	68	"	"	10	"
5	4	5	66.0	"	N. by E.	2			30.04	59	58	56	68	fr.	cir cum	7	"
6	8	1	74.1	"	"	2			30.06	60	58	56	64	"	"	6	"
7	4	9	82.0	"	"	2			30.06	60	58	54	64	"	"	5	"
8	8	5	90.5	"	"	2			30.06	60	58	54	64	"	"	5	"
9	4	4	94.9	"	"	2			30.06	61	59	54	64	"	"	6	"
10	4	9	5.8	"	"	2			30.06	62	60	58	64	"	"	4	"
11	1	8	8.6		"	2			30.06	63	61	59	64	"	"	4	"
	1	4	9.4	S. S. E.													
Noon.	0	5	10.2	E. by E. 1/2 E.	N. E. by N.	2			30.05	63	61	59	64	"	"	4	"
	4	1	14.6														

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. — N 31 . 49 — "
- Longitude by D. R. — E 125 . 23 — "
- Latitude by observations of ⊙ — N 31 . 39 — "
- Longitude by chronometer from Forenoon Observations of ⊙ — E 125 . 25 — "

Position at 8 a. m.
- Latitude by D. R. — N 31 . 31 — "
- Longitude by Chron. do do do — E 124 . 59 — "

Position at 8 P. M.
- Latitude by D. R. — N 32 . 04 — "
- Longitude by Chron. P. M. do do — E 126 . 35 — "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8h 5 " " E. by E. 1/2 E. W 3 25 "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 550 "

Coal consumed during the preceding 24 hours, 14 tons 1340 lbs.

Coal remaining on hand at Noon, 21 " 196 "

P. M.													
	1	1	15.4	E. by E. 1/2 E.									
1	6	4	21.8	E. by E. 1/4 E.	N. by E.	3	30.03	64	61	59	54	fr.	sh	4	11
2	4	4	29.5	"	"	2-3	30.03	63	60	59	59	"	"	4	"
3	8	2	34.4	"	N. E. by N.	2-3	30.02	64	61	59	59	"	"	4	"
4	8	1	46.8	"	"	2-3	30.02	64	61	59	59	"	"	4	"
5	8	0	53.8	"	"	2	30.02	63	61	60	59	fr.	nmbs	10	"
6	4	6	61.4	"	"	2	30.01	63	61	60	58	fr.	cir cu	4	"
7	4	6	69.5	E. by E.	N. by E.	3-4	30.00	64	63	61	58	"	"	2	"
8	4	5	74.0	"	"	3	30.00	64	63	61	59	"	"	6	"
9	4	5	84.5	"	"	3	29.99	66	64	61	66	"	cum	9	g
10	4	6	92.1	"	"	3	29.99	66	65	61	66	"	"	9	"
11	4	9	100.	"	"	3	29.98	65	65	61	66	"	"	8	"
Mid.	4	5	104.5	"	"	3	29.98	65	64	60	66	"	"	8	"

under the command of Commander T. T. Jewett, U. S. Navy,

Thursday May 12th, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Commences and Until 4 A.M.

Clear, cool, heavy dew. Light to gentle breze from N.E. Smooth sea. Gentle swell from N.E. last hour. Moonlight. Light bank of clouds to N. latter part.

E. K. Galloway
Lieut U.S.N.

From 4 to 8 A.M.

Clear cool weather. Light breze from N.N.E. Steering a course E.N.E. & E. under steam & sails. Exchanged colors with a German barque standing to N.W. & W. Smooth sea.

D. L. Harris
Lieut U.S.N.

From 8 A.M. to Meridian

Clear & pleasant. Light breze from N.N.E. & N.E. by N. at 9.30 mustered at quarters. At 9.50 called all hands crossed topgallant & royal yards and exercised at sail drill. then sent down topgallant and royal yards. Furling sail, drill & stopped the engines. Set clock ahead twenty minutes. Sun by E.

A. F. Lecraw
Ensign U.S.N.

From Meridian to P.M.

Clear bright & cool. Light cir. st clouds about horizon. Light to gentle breze from N.N.E. & N.E. by N. Smooth sea with moderate ENE swell. Ship easy. At 12 changed course to E.N.E. & E. P.L. 6 ft. At 1 P.M. set head sails & main trysail. At end of watch on course E.N.E. & E. under steam, head sails & main trysail. Exercised Apprentices of starboard watch at signals (Morse Code)

H. C. Pennington
Ensign U.S.N.

From 4 to 6 P.M.

Clear bright & cool. Light breze from N.E. by N. At 4.35 took in fore & aft sails. Started fires in two boilers for distilling. At end of watch on course E.N.E. & E. Steaming with six boilers.

W. B. Hoggatt
Ensign U.S.N.

From 6 to 8 P.M.

Clear, cool & pleasant. Light breze from N.E. Sea smooth. At 6. no change course to E.N.E. P.L. 6 & 9. At 7.50 started distilling. Exercising Quarter Masters and apprentices with Navy Code of Signals. Expended in Navigation Dept. 9 green, 6 red, 2 rockets & 2 staves.

E. K. Galloway
Lieut U.S.N.

From 8 P.M. to Midnight

Clear & pleasant weather. Light breze from N.E. Steering a course under steam, six boilers. Distilling. Moon rose at 11.40.

D. L. Harris
Lieut U.S.N.

Examined and found to be correct.

A. W. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

At Sea making passage to Nagasaki

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	0	14.5	E.N.E.	N.E.by.N.	3			29.94	65	64	60	66	b.c	cir-cir	9	M
2	6	9	21.4	"	"	3-4			29.93	65	64	60	66	b	cir	10	"
3	7	0	28.4	"	"	3-4			29.91	65	64	61	66	"	"	10	"
4	7	1	35.5	"	"	3-4			29.91	65	64	60	66	b.c	cir cum	9	"
5	3	8	39.3	E. by N.	N.E.	4			29.93	65	64	60	66	"	cir-cir	6	"
6	6	9	49.1	"	N.E.by.N.	4			29.94	65	64	60	66	"	"	8	"
7	7	1	56.2	"	"	4			29.95	66	64	60	66	"	"	8	"
8	5	2	61.4	E.N.E.	"	4			29.96	66	65	60	66	"	"	8	"
9	4	6	66.3	E. by N.	"	4			29.96	66	65	60	66	"	"	9	"
10	4	4	70.7	"	"	4			29.94	66	64	60	66	"	"	9	"
11	6	2	84.9	E. ½ N.	"	4			29.93	66	64	60	66	"	"	9	"
Noon.	6	0	90.9	Ease	"	4			29.92	64	65	59	64	"	"	9	"
	3	2	92.9	E. ½ S.													

Course and distance made good since preceding noon by observations, E.N.E.¼E. 169 knots. tenths.

Position at Noon:	Latitude by D. R.	N	32 ° 41. "
	Longitude by D. R.	E	128 ° 42. "
	Latitude by observations of ⊙	N	32 ° 34. "
	Longitude by chronometer from Forenoon Observations of ⊙	E	128 ° 34. "
Position at 8 a. m.	Latitude by D.R.	N	32 ° 29. "
	Longitude by Chro ditto ditto	E	128 ° 02. "
Position at 8 P. M.	Latitude by D.R.	N	32 ° 40. "
	Longitude by Chro P.M. ditto	E	129 ° 34. "

Current during the time, knots .25 tenths per hour, setting to the S.by.W.½.W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 8h. " E.N.E. W3 ° 45. "

Water expended during the preceding 24 hours, 960 gallons.

Water Potable during the preceding 24 hours, 1310 "

Water remaining on hand fit for use at Noon, 1500 "

Coal consumed during the preceding 24 hours, 1 tons 1935 lbs.

Coal remaining on hand at Noon, 53 " 501 "

P. M.	Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
1	8	3	102.2	E. ½ S.	N.E.by.N.	2-3	29.90	69	69	60	64	b.c	cir	9	S
2	8	9	110.5	E.N.E.½E.	"	3	29.88	69	64	62	64	"	"	9	"
3	8	4	18.9	"	N.N.E.	3-4	29.86	68	66	61	64	"	"	9	"
4	8	3	27.2	"	"	3-4	29.83	68	66	60	66	"	"	9	"
5	8	3	35.5	"	N.by.E.	4-5	29.81	68	66	61	66	"	"	9	"
6	6	1	43.1	E.N.E.	"	4-5	29.82	68	64	61	66	b	nme	10	"
7	5	9	49.0	N.E.by.E.½E.	N.N.E.	3-4	29.82	68	64	62	66	"	"	10	"
8					"	3	29.82	68	64	62	66	"	"	10	"
9	Standing in for entrance to Nagasaki Harbor				"	3	29.85	70	66	59	66	"	"	10	"
10					"	2	29.84	70	65	58	66	"	"	10	"
11	Ships Head			N.E.by.N.	N.E.	2	29.84	68	64	58		"	"	10	"
Mid.					"	3	29.87	65	64	58		"	"		

under the command of Commander T. F. Keese, U. S. Navy,

Friday May 13th, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4 A. M.

Clear & pleasant. Bright moonlight. Gentle to moderate breeze from N. E by N. Under steam alone. Course E N. E. Distilling.

C. A. F. Magruder
Ensign U. S. N.

From 4 to 8 A. M.

Partly clear with light cir-str clouds. Bright & pleasant. Moderate breeze from N. E. 1st hour, N. E by N. afterwards. Moderate sea & swell from N. E. Ship steady. At 4m, changed course to E by N. P.L. 39°. At 5m, set fore & aft sail. At 4h 0m, changed course to E N. E. P.L. 61°. Having sighted high land from masthead, bearing (fr.) E N E 1/2 E. Took in fore & aft sail. At 4h 50m, & to end of watch high land in sight from deck, bearings E N. E & E by N. At end of watch under steam alone on course E N. E. Distilling.

A. C. Pennington
Ensign U. S. N.

From 8 A. M. to Meridian

Clear, bright & pleasant. Moderate breeze from N. E by N. Changed course to E by N. at 8.40, to E 1/2 N. at 10. to East at 11. & E 1/2 S. at 11.40. At 8.30 set fore & aft sail & sent flying jib. At 9.30 mustered & inspected crew at quarters. At 9. to muskets crew at stations for making sail. By order of Comdg Officer threw overboard the hammock, mattress & blanket belonging to Robert Robertson, Seaman, as being infected. Quarterly Board of Survey condemned one can of mutton & one bottle of pickles which were thrown overboard by order of Comdg Officer. By order of Comdg Officer released Patrick Tobin, P.M. from confinement, his term having expired & confined E. Mannix, P.M. in double irons for ten days, for being asleep on post. Set clock ahead 12 minutes at 10.02. At 10.40 set fore sail. At end of watch Goto Island Light House bore N. by W. 1/2 W. Smooth sea. Distilling.

W. B. Haggatt
Ensign U. S. N.

From Meridian to 4 P. M.

Clear, wind & pleasant. Gentle breeze from N. N. E at noon increasing to fresh breeze & veering to East. Sea smooth increasing towards end of watch. At 1m, issued clothing in Pay Dept. At 1h, changed course to East. At 1h 45m to E N. E 1/2 E. P.L. 6°. At 3m, received apprentices of watch at signals (A & N. Code). Furled fore sail at 12 3m. Set fore sail at 1 3m. Showed flying jib. At 3 3m. At 3 4m sighted high land on beam bore.

C. P. Galloway
Lieut U. S. N.

From 4 to 6 P. M.

Clear, cool weather, haze over the land. Moderate to stiff breeze from N by E. At 5.10 stopped to pick up a native boat in distress. Went ahead again at 5.30. At 5.40 sighted Nagasaki Lt House bearing E N E 6 or 8 miles. At 5.50 changed course to E N. E. at end of watch standing in for entrance to Nagasaki Harbor.

R. T. Wasing
Lieut U. S. N.

From 6 to 8 P. M.

Clear & pleasant. Gentle breeze from N. N. E. At 6 4m, a sampan having anchor swamped. Stopped to take off her crew & hoist the sampan inboard & then at 7m stood in towards Nagasaki Light. Took in sail.

A. F. Magruder
Ensign U. S. N.

From 8 P. M. to Midnight

Clear, bright starlight. Cool. Light to gentle breeze from N. N. E & N. E. Smooth sea. Steaming in for entrance to & into Nagasaki Harbor in charge of Comdg Officer until 10 7m when came to in 15 fms water with starboard anchor veering to 60 fms. Sighted Kagino Light at 8 55m, bearing E by S (fr.). Draft of ship fwd 13', aft 15'.

C. C. Townsend
Ensign U. S. N.

Examined and found to be correct.

A. T. Mahan Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor in the Harbor of Nagasaki.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	Ebb			N. E.	N. E.	1			29.82	65	64	59		b.c.	nmc	10	S
2	"			N. N. E.	N. N. E.	1			29.84	65	63	59		"	"	10	"
3	"			N. by E.	N. E.	1			29.89	64	63	59		"	"	10	"
4	"			N. E.	"	1			29.89	63	62	58		"	"	10	"
5	"			N. E. by E.	"	1			29.92	63	60	54		"	"	10	"
6	"			N. E. by N.	N. E. by N.	1			29.95	63	60	54		"	"	10	"
7	"			E. N. E.	E. N. E.	1			29.98	64	62	60		"	"	10	"
8	"			N. E. by N.	N. E.	1			30.01	66	64	61		"	"	10	"
9	"			N. E.	"	1			30.02	67	66	63		"	"	10	"
Swinging to Flood				W. by N.	"	1			30.02	67	64	63		"	"	10	"
11	"			Getting Underway	"	1			30.03	68	68	65		"	"	10	"
Noon.	"			S. W. by S.	S. W.	1			30.04	71	69	65		"	"	10	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 1650 "

Water remaining on hand fit for use at Noon, 32450 "

Coal consumed during the preceding 24 hours, 8 tons 1107 lbs.

Coal remaining on hand at Noon, 44 " 1641 "

P. M.										
1		S. W. by S.	S. W.	2	30.03	42	41	64	b.c.	cirrh 9 S
2		S. W.	"	2	30.02	43	41	64	"	" 9 "
3		West	"	2	30.01	43	42	65	"	" 9 "
4	Flood	S. S. W.	S. S. W.	2	30.01	43	41	65	"	" 9 "
5	"	"	"	1	30.01	42	40	65	"	cir cum 4 "
6	"	"	"	1	30.02	42	40	65	"	" 8 "
Swinging to Ebb		W. N. W.	N. N. W.	1	30.02	41	69	65	"	" 8 "
8	"	N. E. by N.	Calm	0	30.03	69	68	65	"	cum 9 "
9	"	N. E.	N. E.	1	30.05	68	66	63	"	" 8 "
10	"	"	"	1	30.06	64	64	60	"	" 8 "
11	"	"	"	1	30.06	56	25	59	"	" 9 "
Mid.	"	"	"	1	30.05	56	16	59	"	" 8 "

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday May 14th, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends 4 A.M.

Clear bright moonlight and starlight. Light airs from N.E. & N.N.E. Stopped distilling at 1:15 the tanks being full.

W.B. Haggatt.
Ensign U.S.N.

From 4 to 8 A.M.

Clear, mild & pleasant. Light breezes from N.E. Fired 1st Howitzer gun in boiler 1 & 3. Hoisted out steam launch & got up steam. Sent whale boat, Lieut Fechteler in charge with Surgeon to Nagasaki to notify Health Officer &c. Hoisted out Japanese Sampan, sent the men two oars & they left the ship for their homes, the lower part of the harbor.

C.E. Galloway
Lieut U.S.N.

From 8 A.M. to Meridian

Clear pleasant weather. Light airs from N.E. & S.W. At 8:50 sent up top-gallant yards & unrolled sail. Sent Robert Robertson, Sea 2 C, to Civil Hospital for treatment. At 10:20 called up anchor & shifted berth to inner harbor letting go port anchor at 11:21 in 7 fms. Mooring ship at end of watch. Two steamers left the harbor & one came in. Received an official visit from an officer of Japanese Corvette "Kotchuu". Sent one No 3 signal flag with pilot & hoisted it. Draft of ship, fwd 13', aft 15.

E.T. Walling
Lieut U.S.N.

From Meridian to 4 P.M.

Clear bright & pleasant with cirro stratus clouds. Light breeze from S.W. & S.S.W. Shifted berth & mooring ship. Hauled fires from boilers 2 & 4. Received an official visit from U.S. Steamer to Nagasaki. Draft fwd 13', aft 15'.

W.C. Pomeroy
Ensign U.S.N.

From 4 to 8 P.M.

Clear & pleasant. Light airs from S.S.W. & N.N.W. with Calms. Hauled fires from boilers 5, 6, 7 & 8 at 8:45. At 7: moored to the buoy.

E.T. Walling
Lieut U.S.N.

From 8 P.M. to Midnight

Partly clear with cirro clouds. Bright starlight. Calm. Light airs from N.E. & apparent tide.

W.C. Pomeroy
Ensign U.S.N.

Examined and found to be correct.

A.T. Markham. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Nagasaki.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N by E	N N E	1			30.04	62	60	56		b c.	cirr cu	9	9
2				N N E	"	1			30.04	61	59	56		"	"	8	"
3				"	"	1			30.03	60	59	56		"	cir	4	"
4				"	"	1			30.09	60	59	56		"	"	4	"
5	Ebb			"	"	1			30.09	60	59	56		"	cirr	6	"
6	"			N by E	Calm	0			30.04	61	59	54		"	"	6	"
7	"			N N E	"	0			30.06	63	61	59		"	"	4	"
8	"			N E by E	"	0			30.09	65	63	61		"	"	3	"
9	"			E by N	"	0			30.26	64	66	63		"	"	2	"
10	Flood			S W.	S W.	1			30.13	69	68	64		o c.	cu nim	0	"
11	"			West	"	1			30.13	69	68	64		"	"	0	"
Noon.	"			S S W.	S S W.	1-2			30.13	70	69	64		b c.	cir cum	2	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, Hot gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2350 "

Coal consumed during the preceding 24 hours, tons 1065 lbs.

Coal remaining on hand at Noon, 44 " 5 1/2 6 "

P. M.											
1	Flood	S S W.	S S W.	1	30.11 1/2	64	b c.	cu nim	2	S
2	"	"	"	1	30.10 1/2	64	"	"	4	"
3	"	West	W. by W.	2	30.10 1/2	64	"	"	1	"
4	"	"	"	1	30.10 1/2	63	"	"	2	"
5	"	S W. by W.	S W.	1	30.11 1/2	65	"	"	2	"
6	"	S W.	Calm	0	30.09 1/2	65	"	"	1	"
7	"	West	"	0	30.09	68	"	cir cum	3	"
8	"	W. by N.	"	0	30.10	68	C	cum	0	"
9	Ebb	N E by E.	"	0	30.10	68	b c.	cir cum	0	"
10	"	"	"	0	30.09	64	"	"	0	"
11	"	E by S.	E S E.	0-1	30.08	64	"	"	0	"
Mid.	"	"	"	1	30.09	66	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday May 15th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A.M.
Generally clear and pleasant. Light airs from N. N. E.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A.M.
Clear and pleasant weather. Light breeze from N. N. E. 1st hour, Calm last three.

P. F. Walling
Asst Surg U. S. N.

From 8 A.M. to Meridian
Generally cloudy; clouds cum, cumb and cir cum. Warm and pleasant. Calm 1st hour. Light airs from S. W. to W. S. W. afterwards. At 9 30, Cond'g Officer inspected ship, crew at quarters. Held Divine Service. Cond'g Officer paid an official visit to H. I. J. M. S. "Yoshino" in apparent tide. Sent liberty party ashore.

A. Hamersley
Ensign U. S. N.

From Meridian to 4 P.M.
Generally cloudy. Light airs and breeze from S. S. W. & W. S. W.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P.M.
Cloudy and pleasant. Clouds cir cumb and cir cum. Light S. W. airs 1st hour. Calm afterwards. Finished repairs to steam Cutter. Tried her and found boiler in good order. No apparent tides.

A. Hamersley
Ensign U. S. N.

From 8 P.M. to Midnight
Overcast cloudy and pleasant. Calm first two hours, light airs from E. S. E. last two hours.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Nagasaki.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A.M.																	
Apparent time				E. by E.	Calm	0			30.04	68	62	63		b.c.	cir cumm	2	S
2				East	"	0			30.06	68	66	63		b.c.	cum nim	0	"
3				E by N.	"	0			30.06	68	64	63		"	"	0	"
4				East	S E.	0-1			30.04	68	64	64		"	"	0	"
5				N E by N.	Calm	0			30.03	68	64	65		o.c.r.	"	0	"
6				N. E.	"	0			30.04	68	64	65		"	"	0	"
7				N by E.	"	0			30.05	68	64	66		"	"	0	"
8				West	"	0			30.06	68	68	66		"	"	0	"
9				W. by W.	W. by W.	0-1			30.04	68	68	66		"	"	0	"
10				"	"	0-1			30.04	68	68	64		"	"	0	"
11				W. by N.	S by W.	0-1			30.04	69	68	66		"	"	0	"
Noon.				S W by S	"	0-1			30.06	69	68	66		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ' "

Water expended during the preceding 24 hours, 400 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1950 "

Coal consumed during the preceding 24 hours, tons 800 lbs.

Coal remaining on hand at Noon, 105 " 896 "

P. M.																	
1				S by W.	Calm	0			30.05	69	68	64		o.c.r.	cum nim	0	S
2				S. W. by S.	"	0			30.03	71	68	64		"	"	0	"
3				South	"	0			30.01	71	68	66		o.c.	"	0	"
4				S E.	"	0			29.99	71	68	66		"	"	0	"
5				E. S E.	"	0			29.97	69	68	66		"	"	0	"
6				East	E. by S E.	2			29.97	69	64	65		b.c.	cir cum	4	"
7				S E.	"	2			29.96	68	66	64		"	"	2	"
8				S. E. by E.	East	1			29.97	67	66	64		b.c.	"	0	"
9				N. E.	Calm	0			29.98	68	64	65		"	nimb	0	"
10				North	"	0			29.99	64	66	65		o.c.	"	0	"
11				N. N. E.	"	0			29.99	64	66	65		"	"	0	"
Mid.				North	"	0			29.97	67	66	65		b.c.	cum nim	1	"

under the command of Commander T. T. Jewell, U. S. Navy,

Monday May 16th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Cloudy & calm. During last hour light airs from S. E.

C. A. Traynor
Ensign U. S. N.

From 4 to 8 A. M.

Overcast with calm & mist clouds. Continual rain, light at first. Calm. No tide. Made preparations for coaling ship. Coal lighters came alongside at 5 A.M. Made colors with a French Gunboat which came into port at 6 A.M. Cutters came alongside at 6:30 A.M. Commenced coaling at 6 A.M. Placed J. Kohler, P.M. under sentry charge to get sober. Scraped inside of smoke-pipe. At 8 A.C. had received 25 tons of coal. Sent an officer to French Gunboat to make official call of courtesy. Found her to be the "Vipere." Received in Pay Dept. for issue to crew 128 3/4 lbs each of fresh beef & vegetables & 63 lbs bread.

W. H. Longstone
Ensign U. S. N.

From 8 A. M. to Meridian

Overcast & raining. Calms & light airs from W. SW. & S. & W. Finished coaling at 9 A.M. having received in all 61½ tons. Japanese man-of-war "Congo" came in at 9:30. Sent boarding officer to offer usual courtesies. The Comdg Officer of the Japanese Gunboat Moshimi returned official visit of the Comdg Officer.

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P.M.

Overcast & cloudy. Rain first three hours. Calm. Chief of Police of Japanese Village came on board to return thanks for rescuing five fishermen. Received official visit from Comdg Officer of French Gunboat "Vipere." Passed T. Denton C. T. & W. Thompson L. T. under sentry charge to await their getting sober they having returned from leave under the influence of liquor. Released J. Kohler, P.M. he being sober.

C. A. Traynor
Ensign U. S. N.

From 4 to 8 P.M.

Overcast & cloudy, clearing towards end of watch. Calm & light airs & breeze from E. S. E. & East. By order of Comdg Officer released Wm. Thompson, L.T. & Thos Denton, C.T. from the sentry charge they having become sober. At 6:15 mustered at quarters, the following men were absent without leave: S. E. Hendrick, Oiler, J. F. Cunningham, C. Hy, J. Horan, W. T. L. F. Dunn, Asst Engr, A. Campbell, Sea, A. E. Hansen, C. A. G. A. Blain, Mchst, F. Hoffman, C. T., J. Daley, Sea, W. H. Baird, Cpl, H. Aberle, P.M. J. Kelley, P.M. W. H. Simmons, P.M. & J. McGinn 2 C.F. Exercised apprentices at Night Signaling with Hand Torch. Lost one foot torch overboard in signaling.

W. B. Hoggatt
Ensign U. S. N.

From 8 P.M. to Midnight

Overcast & cloudy with occasional rain. Calm. At 10 P.M. T. Denton C. T., fell overboard from the fore gallant forecastle. Picked him up & placed him under sentry charge, he being under the influence of liquor. J. McGinn, 2 C.F. returned on board under the influence of liquor & was placed under sentry charge.

C. A. Traynor
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Nagasaki

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
7	Apparent tide			N. E. by N.	N. E. by N.	1			29.94	64	66	64		o.c	cum nimb	0	9
2				"	"	1			29.92	67	66	64		" p.	"	0	"
3				N. by E.	"	1			29.92	67	66	64		o.c.	"	0	"
4				N. E.	"	1			29.91	66	65	64		o.cp.	"	0	"
5				"	"	1			29.93	66	65	64		o.cr.	"	0	"
6				N. N. E.	"	1			29.94	67	65	64		o.cu.	"	0	"
7				"	North	1			29.94	67	65	64		"	"	0	"
8				N. E.	E. N. E.	1			29.94	67	66	64		" N	"	0	"
9				"	N. E.	1			29.94	67	66	64		o.cl.	"	0	"
10				"	"	1			29.95	68	66	64		"	"	0	"
11				E. N. E.	E. N. E.	1			29.95	68	66	64		o.cr.	cumb	0	"
Noon.				N. E. by E.	"	1			29.95	68	66	64		"	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water——————— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 15400 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 105 " 496 "

P. M.														
1		N. N. E.	N. N. E.	1		29.93	68	65		o.cl	cumb	0	9	
2		N. E. by N.	"	1		29.91	68	66	64	"	"	0	"	
3		E. N. E.	"	1		29.90	68	67	66	"	"	0	"	
4		N. N. E.	"	1		29.90	68	67	66	"	"	0	"	
5		E. N. E.	"	1		29.90	68	66	64	"	"	0	"	
6		N. N. E.	"	1		29.90	68	66	64	"	"	0	"	
7		N. E.	Squall	0		29.89	67	66	64	o.cl	cumb	1	"	
8		N. N. E.	N. E.	1		29.89	67	66	66	o.c.	cir cumb	6	"	
9		"	N. N. E.	1		29.90	67	66	63	"	cumb	1	"	
10		N. by E.	"	1		29.91	66	65	63	"	"	3	"	
11		"	"	1		29.93	66	66	63	"	"	2	"	
Mid.		North	"	1		29.93	65	64	62	"	"	2	"	

under the command of Commander T. F. Jewett, U. S. Navy,
Tuesday May 17th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & Cutic A. M.
Overcast & cloudy with passing showers during second & last hour of watch. Light airs from N. E. by N.

F. J. Toomis
Ensign U. S. N.

From 4 to 8 A. M.
Overcast, cloudy, misty & raining. Light airs from North to E. N. E. By order of the Comdg Officer released T. Denton, C. Tel, & F. J. McGuire, 2. C. F. from the sentry's charge, they having become sober.

W. B. Haggatt
Ensign U. S. N.

From 8 A. M. to Meridian.
Cloudy & rainy with light airs from E. & E. N. E. At 9 a. m. mustered at quarters and found the following men, for whom rewards of 10 yen each were then sent ashore, absent without leave, viz: G. E. Hendrick, Cabin; J. F. Cunningham, C. Yor; J. Horan, W. T.; L. F. Dumm, Bkmst; J. Shields, Ord. Clk; Alex Campbell, Sea; A. E. Hansen, C. A. G.; A. Spain, Mchst; F. Wallace, C. Tel; Jno Daley, Lds; W. M. Baird, Corpl; H. Aeberle, P. M.; J. Kelly, P. M.; & W. H. Shinnes P. M.

A. F. Fenton
Ensign U. S. N.

From Meridian to 4 P. M.
Overcast & cloudy with drizzling rain. Light airs from N. N. E. Placed J. F. Cunningham C. Yor; J. Shields, P. Cook; A. Spain, Mchst; Pat Aeberle, U. S. M. C. & J. Daley, Lds, under sentry's charge for being under the influence of liquor. Captain S. Aoki, Comdg H. I. J. M. S. "Kongo" paid an official visit to the ship & was received with the usual honors. J. Horan, W. T. & Pat Kelley, U. S. M. C, were brought on board by police authorities of Nagasaki for overstaying leave & were placed under sentry's charge to sober up. Examined dry gun-cotton primers & electrical batteries & found them in good condition. At 1:15 the Comdg Officer left the ship to make an official visit to the Japanese man-of-war "Kongo" & the French Gunboat "Vipere".

F. J. Toomis
Ensign U. S. N.

From 4 to 8 P. M.
Overcast & cloudy with occasional light rain. Calm & light airs from N. E. At 6:15 mustered at quarters & found the following men absent over-leave: A. Campbell, Sea, A. E. Hansen, C. A. G., F. Wallace, C. Tel, L. F. Dumm, Bkmst, W. M. Baird, Corpl, & W. H. Shinnes P. M. At 7:30 the three police brought on board L. F. Dumm, Bkmst, F. Wallace, C. T. & A. Hansen, C. A. G. all three drunk, placed the first two in double irons & the last under sentry's charge.

A. F. Fenton
Ensign U. S. N.

From 8 P. M. to Midnight.
Cloudy foggy weather. Light airs from N. N. E. At 11 P. M. Russian Gun-boat came in & moored N. N. E. from Essex. Corporal Baird, U. S. M. C, was brought on board by Nagasaki Police & placed under sentry's charge.

F. J. Toomis
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams, Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Nagasaki.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
Apparent tide				N. by E.	N. by E.	2			29.92	65	66	62		b.c.	cumu nimb	3	9
2				N. N. W.	"	2			29.90	66	64	61		"	"	2	"
3				N. by E.	"	1			29.90	64	63	61		"	cumu	6	"
4				N. N. E.	"	1			29.90	64	63	61		"	"	8	"
5				N. by E.	N. N. E.	2			29.92	63	62	60		"	cir-cumu	4	"
6				"	North	2			29.95	63	62	58		"	"	8	"
7				"	"	2			29.94	64	61	58		b.c.	nimb	10	"
8				"	"	2			29.98	64	63	58		"	"	10	"
9				North	"	2			29.99	66	64	59		"	"	10	"
10				"	"	2			30.00	64	66	59		"	"	10	"
11				N. by W.	"	2			30.00	68	64	60		"	"	10	"
Noon.				N. by E.	"	2			30.00	70	64	61		b.c.	cir	9	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, ~~Non~~ gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1140 "

Coal consumed during the preceding 24 hours, tons ~~Non~~ lbs.

Coal remaining on hand at Noon, 105 " 96 "

P. M.																	
1				N. by W.	North	1			30.00	72	71	62		b.c.	cir-cir	6	9
2				"	"	1			29.99	73	73	63		"	cir-cumu	5	"
3				North	"	1			29.98	74	74	65		"	"	4	"
4				S.W.	"	1			29.94	74	74	64		"	"	6	"
5				W. by W.	"	1			29.94	75	74	66		"	"	4	"
6				N. W.	"	2			29.94	74	71	64		"	"	6	"
7				N. by E.	"	2			29.00	71	69	63		"	"	8	"
8				"	"	2			30.01	70	64	63		"	"	8	"
9				N. N. E.	N. N. E.	2			30.02	69	66	62		"	cumu	9	"
10				N. E. by N.	"	2			30.02	68	65	61		"	"	9	"
11				N. N. E.	"	1			30.03	64	64	61		"	"	9	"
Mid.				N. E. by N.	"	1			30.03	66	63	60		"	"	9	"

under the command of Commander T. F. Jewett, U. S. Navy,

Wednesday May 18th, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unite H. A. M.
Clear & cool. Light airs from N. E.

E. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M.
Clear & pleasant. Light breeze from North. The French man-of-war "Vipere" left the harbor. Two Russian men-of-war are flying a Rear Admirals flag came in. Sent an officer to visit the Russian flagship. W. H. Thomas, P.M. was brought on board by the Japan police. Released from confinement Capt Baird, J. Ackerly P.M., J. Hailey P.M., J. F. Cunningham & Hos. L. F. Dunbar, Blksmith, J. Daly, Las, J. Shields F. Cook, J. Horan C.T., A. Shaw Machst, and F. Wallace, C. Tob., they being sober.

E. A. Taylor
Ensign U. S. N.

From 8 A. M. to Meridian.
Clear, warm & pleasant. Light breeze from North. At 9.30 mustered & inspected at quarters. Found Ady Campbell Sea absent without leave. At 10.15 called all boats away armed & equipped & drilled at Naval Tactics. At 10.15 the Comdg Officer left the ship to pay official visit to the Russian Admiral & Governor of Nagasaki. At 11. the shortened sail. The Japanese man-of-war "Kongo" fired a salute of 13 guns with Russian flag at the main which was returned gun for gun by Russian flagship. At 10.30 Russian gun-boat fired a salute of 7 guns, Russian Consulate flag at fore.

F. J. Fornis
Ensign U. S. N.

From Meridian to 4 P.M.
Clear warm & pleasant. Light airs from East. At 2 P.M. exercised running boats crews in pulling launch 1st & 2d cutters. Sent weight & chain of starboard life buoy to machine shop to enable estimate of cost of duplicating to be made. Engaged setting up main topmast stays. At 2.30 Russian Gunboat fired a salute of seven guns, Consulate flag at the fore.

E. D. Galloway
Lieut U. S. N.

From 4 to 8 P.M.
Fair to clear weather. Light breeze from North. At 4.30 Russian flagship fired a salute of 9 guns Japanese flag at fore. Exercised Apprentices at Signals Army & Navy Codes. At 6.15 mustered at quarters. Ady Campbell Seaabsent without leave. At sunset sent down Topgallant yards & sent light sails.

F. J. Fornis
Ensign U. S. N.

From 8 P.M. to Midnight
Clear & cool. Light breeze from N. N. E. Placed J. Horan, C.T. & J. Hendrick, Oiler, in double irons for being drunk & disorderly on board ship to await action of Comdg Officer. A. Campbell Sea, returned on board at 8 hrs overtime.

E. D. Galloway
Lieut U. S. N.

Examined and found to be correct.

E. T. Mathews Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Nagasaki.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
~~1~~ Apparent time				N. E. by N.	N. N. E.	1			30.01	64	63	61		be	cumu	8	S
2				N. E.	"	1			29.98	66	63	60		"	"	6	"
3				N. E. by N.	"	1			29.94	66	64	61		"	"	4	"
4				N. N. E.	"	1			29.94	66	64	61		b.c.	cumu nimb	0	"
5				N. E.	S. E. by E.	1			29.94	66	65	62		"	"	0	"
6				"	"	2			29.94	64	66	62		"	"	0	"
7				S. E. by E.	"	2			29.98	64	66	62		"	"	0	"
8				E. S. E.	"	2			29.98	68	64	62		"	"	0	"
9				E. by S.	S. E.	1			30.00	40	68	64		"	"	0	"
10				"	"	1			30.00	41	69	65		"	"	0	"
11				S. E. by E.	"	1			29.99	40	69	65		"	N	0	"
Noon.				South	"	1-2			29.98	40	69	65		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 749 "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 104 " 1936 "

P. M.																	
1				E. by S.	S. by E.	1-3			29.94	40	69	66		b.c.rg.	cumb	0	S
2				S. by E.	S. S. E.	1-4			29.88	40	69	66		"	"	0	"
3				S. S. E.	"	2-4			29.84	40	69	66		"	"	0	"
4				S. E. by S.	"	2-4			29.85	40	69	64		"	"	0	"
5				South	"	2-3			29.83	40	69	64		b.c.	"	0	"
6				"	"	2			29.83	40	69	64		"	"	0	"
7				West	West	2			29.83	40	69	64		"	"	0	"
8				"	"	2			29.85	40	70	64		"	"	0	"
9				"	"	2			29.86	40	66	66		"	"	0	"
10				N. E.	N. E.	2			29.88	68	66	65		"	"	0	"
11				"	"	2			29.88	64	65	64		"	"	0	"
Mid.				"	"	2			29.96	64	65	64		"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,

Thursday May 9th, 1889.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unfit A. M.

Clear first part. Clouding over latter part. Light airs from N. N. E.

P. T. Waring
Lieut U. S. N.

From 4 to 8 A. M.

Overcast & cloudy breaking away last hour of watch. Light airs to gentle breze from S. E. by E. At 6 o'clock crossed t'gallant & royal yards. Liberty party returned. Received in Pay Dept for issue to crew 128 lbs each of fresh beef & vegetables & 103 lbs fresh bread.

F. Jewett
Comdg U. S. N.

From 8. A. M. to Meridian

Fair & pleasant first part, cloudy with rain latter part. Light airs from S. E. At 9.30 mustered at quarters. At 9.45 exercised at making sail. Sent down light yards, unbent light sails & crossed top gallant yards. Commanding Officer of Russian Frigate paid an official visit to ship. Released E. S. Manning P. M. from confinement by order of Comdg Officer.

C. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Overcast, rainy weather. Light airs to gentle breze from S by E. Light airs to moderate breze from S. S. E. Squally. By order of Comdg Officer placed J. Mosher P. M. in double irons to await further action in his case. Russian Frigate "Dmitrii Donskoi" came into harbor & saluted Japanese flag with 21 guns. Salute returned by fort ashore. Sent an officer to offer usual civilities. Russian Frigate "Dmitrii Donskoi" shifted her berth at 3.30. Exercised signal class for half an hour.

P. T. Waring
Lieut U. S. N.

From 4 to 8 P. M.

Overcast with continuous rain. Light airs from S. S. E. first part west latter part. An officer from the Russian Frigate "Dmitrii Donskoi" paid official visit to this ship.

C. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight

Rainy, overcast weather. Light breezes from west & N. E. At 9:00 started fires in 1 & 3 boilers for distilling. Commenced distilling at 11.40.

P. T. Waring
Lieut U. S. N.

Examined and found to be correct.

A. T. Mahan Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Nagasaki.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				W. N.W.	N. E.	1			29.89	66	66	64		b.c.r.	cumb	0	S
2				S. S.W.	West	1			29.88	66	65	64		"	"	0	"
3				"	"	1			29.88	65	64	63		"	"	0	"
4				W. by S.	"	1			29.87	65	64	62		"	"	0	"
5				West	N.W.	1			29.84	65	62	62		"	"	0	"
6				N.W.	"	1			29.81	65	64	63		"	"	0	"
7				N. E. by N.	Calm	0			29.91	65	64	63		"	"	0	"
8				"	"	0			29.95	66	65	63		b.c.	"	0	"
9				N. E.	"	0			29.96	66	65	63		b.c.q.	"	0	"
10				East	E. by S.	1			29.94	66	65	64		"	"	0	"
11				N. E. by E.	"	1			29.98	66	66	64		"	"	0	"
Noon.				S. E. by S.	South	1			29.98	66	66	64		"	cumus	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 400 gallons.

Water Distilled during the preceding 24 hours, 260 "

Water remaining on hand fit for use at Noon, 1100 "

Coal consumed during the preceding 24 hours, 1 tons 1010 lbs.

Coal remaining on hand at Noon, 103 " 926 "

P. M.										
1		S S.W.	S S.W.	2	29.96	66	64/64	b.c	cumb	6 S
2				2	29.96	70	68	65	"	" 7 "
3		S W.	S W.	2	29.94	71	69	65	"	" 7 "
4		S W. by S	"	2	29.94	70	69	65	"	" 5 "
5		"	"	2	29.94	70	68	65	"	" 6 "
6		"	"	2	29.93	69	68	64	"	" 6 "
7		S W. by W.	W. S W.	2	29.93	68	64/64		"	" 3 "
8		"	"	2	29.93	69	64/64		"	" 2 "
9		S W.	S W.	2	29.94	68	64/64		"	" 5 "
10		"	"	2	29.98	68	64/64		"	" 6 "
11		"	"	2	29.98	68	64/64		"	" 4 "
Mid.		S " S E	South	12	29.98	68	68	65	"	" 4 "

under the command of Commander T. F. Jewell, U. S. Navy,

Friday May 20th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends at A. M.

Overcast with heavy cumulus clouds. Continuous rain. Light airs from N. E. 1st hour, wet, afterwards. Distilling.

H. C. Symonds
Ensign U. S. N.

From 4 to 8 A. M.

Overcast and raining. Light airs from N. W. & Calms. Cleaning last hour. Cleaned bilges. Distilling.

C. D. Galloway
Asst Eng U. S. N.

From 8. A. M. to Meridian

Overcast weather. Light airs from E. by S. & South with Calms. At 9.30 inspected at quarters. Exercised 1st Div at Cutlass Sticks, 2d at Rifles, 3d Instruction Machine Gun, Powder Div at Station. Rigged Starboard torpedo. Fitted steam cutter for torpedo exercise. At 11. hoisted sail to a bowline. Commanding Officer paid an official visit to Russian Flagship "Dmitrii Donskoi". Distilling.

H. H. Waring
Asst Eng U. S. N.

From Meridian to 4 P. M.

Partly clear with cumulus clouds. Bright & warm. Light breze from S. & W. 1st part S. W. afterwards. Ha tide. Exercised Torpedo division, at rigging launch for service. H. M. S. "Audacious" carrying flag of Vice Admiral Hamilton came in & saluted port. Salute returned by shore battery. Visited an officer to extend usual courtesies. Captain Skrydloff of H. I. R. M. Flagship Dmitrii Donskoi" called officially. Furled sails at 3rd. Distilling.

H. C. Symonds
Ensign U. S. N.

From 4 to 8 P. M.

Clear pleasant weather. Light breezs from S. & W. S. W. Received an official visit from an officer of H. B. M. Flagship "Audacious" a Russian man-of-war came in & anchored at 7 to 5. Distilling.

H. H. Waring
Asst Eng U. S. N

From 8 P. M. to Midnight

Partly clear with cumulus clouds. Bright starlight. Pleasant weather. Light breze from S. W. till last hour, when wind came out South in light airs to breze. Distilling.

H. C. Symonds
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Nagasaki

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
Apparent tide				S. by W.	South	1			29.96	68	64	65		b.c.	cumuli	1	S
2						1			29.96	68	68	65		b.c	"	0	"
3				S. S. W.	S. S. W.	1			29.94	68	64	65		"	"	0	"
4				S.W. by S.	"	1			29.94	68	64	65		"	"	0	"
5				S. S. W.	"	1			29.94	68	64	65		"	"	0	"
6				S.W. by S.	"	1			29.96	68	68	66		"	"	0	"
7				S. S. W.	S. W.	1			29.94	69	68	66		"	cir-cumu	0	"
8				W. S. W.	"	1			30.00	69	68	66		"	cumuli	0	"
9				S. W.	"	1			30.01	70	69	66		"	"	0	"
10				S.W. by W.	"	1			30.02	70	69	66		b.c.	cumuli	2	"
11						1			30.02	70	69	66		"	"	3	"
Noon.				S. S. W.	S. S. W.	1			30.02	70	70	64		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 1060 "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 2 tons 2000 lbs.

Coal remaining on hand at Noon, 100 " 1166 "

P. M.																	
1				S.W. by S.	S.W.	2			29.94	41	69	66		b.c	cumu	1	S
2					"	2			29.96	41	70	66		"	"	1	"
3				S.W.	"	2			29.94	42	70	66		"	"	1	"
4				S.W. by S.	"	2			29.94	41	69	66		b.c	"	0	"
5				S.W.	"	1-2			29.93	41	69	66		b.c.f.	cumulo cir-cumu	0	"
6				"	"	1-2			29.93	41	69	66		b.c.f.	cir-cumu	2	"
7				"	"	1-2			29.93	40	69	66		"	"	3	"
8				S. S. W.	"	1-2			29.92	40	68	66		"	cir-cumu	6	"
9				S.W.	"	2			29.96	40	68	66		"	"	4	"
10				West	"	2			29.96	40	68	66		"	"	5	"
11					"	1-2			29.94	40	68	66		"	"	5	"
Mid.				W. S. W.	"	1-2			29.94	40	68	65		"	"	6	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday May 21st, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unfit H. A. M.

Overcast & cloudy. Light airs from South & S.S.W. Sick list.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.

Overcast, pleasant weather. Light airs from S.W. & S.S.W.

L. G. Waring
Lieut U. S. N.

From 8 A. M. to Meridian

Coarse with occasional clouds. Light airs from S.W. & S.S.W. No tide apparent. At 8 o'c Russian Corvette "Vitroz" saluted his admiral, the Port & English admiral all of which salutes were returned. Sent an officer to return usual courtesies to H. I. R. M. Corvette "Vitroz". The following order by Cond'g Officer was read to men concerned "So much of the unexpired part of the sentence as relates to confinement in the cases of Herman Schwengro, Co. James F. Jarrity, Co. C, & Jno A. Williams, Co. A, is remitted. The above named men will be released from confinement & restored to duty. The above named men were released in accordance with this order. By order of Cond'g Officer released from confinement & restored to number and duty James F. Horan & Jno F. Kendrick, Oilers & Joseph Mosset, P.M. Commanding Officer paid official visits to H.M.S. "Audacious" and H. I. R. M. S. "Vitroz". Russian Corvette "Vitroz" saluted Russian Consul to Nagasaki. At 9.30 went to quarters for muster. Getting ship ready for sea. Commanding Officer of H. I. R. M. S. "Vitroz" called. Took off mooring chain & brought to starboard chain. At 9.30 started fires in boilers 2.4.5.6. & 8. Hauled fires in 6 & 8 at 11.50 to make a run hand hole joint. At 10.30 stopped distilling. Japanese Corvette "Hiei Kan" went to sea at 8 o'c. Clear hawse.

H. C. Power Jr
Ensign U. S. N.

From Meridian to 4 P.M.

Generally overcast & cloudy. Light airs from S.W. & S.S.W. at 12 hauled fires in 1 & 3. At 1.30 started fires under boilers 6 & 8. L. C. Boyle, P.M. returned from liberty drunk & by direction of Cond'g Officer was placed in double irons to sober. Russian flagship fired a salute of 11 guns Japanese flag at the fore.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P.M.

Cloudy with fog showing in the offing. Clouds cirro cumulus. Light airs to breeze from S.W. at 4.05. H. I. R. M. S. "Vitroz" fired a salute of 11 guns, Japanese ensign at the fore. Turned engines over & found repair on main steam pipe effective. W. Evans, Tailor, was put under extra charge to get other men to quarters at 6.25. for muster. Japanese Corvette "Hiei Kan" came in. Clear hawse.

H. C. Power Jr
Ensign U. S. N.

From 8 P.M. to Midnight

Generally clear & pleasant. Light airs & breeze from S.W. Clear hawse.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

A. W. Watkins Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Nagasaki.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A.M.																	
Apparent time				S.W. by S.	S.W.	1			29.93	68	68	65		b.c.	cir-cum	6	S
2				W. S.W.	"	1			29.93	68	68	65		"	"	2	"
3				S.W.	"	2-3			29.92	68	64	64		"	"	4	"
4				"	"	2			29.91	69	64	64		"	"	3	"
5				S.W. by S.	"	2-3			29.91	69	64	64		b.c. cu.	cumu. nimb.	0	"
6				S.W. by W.	"	2-4			29.91	68	64	63		b.c.	cir-cum cumu.	2	"
7				S.W.	"	2-3			29.91	68	64	63		"	"	4	"
8				S.W. by W.	"	3-4			29.92	69	64	64		"	"	5	"
9						3-4			29.93	70	68	65		b.c.q.	"	2	"
10				W. S.W.	W. S.W.	3			29.94	70	68	65		b.c.	cumu	4	"
11				"	"	2-3			29.95	70	68	60		"	"	5	"
Noon.				S.W.	"	2			29.93	70	69	66		"	"	3	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by DR N 33 ° 26. "
- Longitude by Chro P.M do do E 129 ° 23. "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water Distilled during the preceding 24 hours, 460 "

Water remaining on hand fit for use at Noon, 2 [illegible] "

Coal consumed during the preceding 24 hours, 1 ton 2055 lbs.

Coal remaining on hand at Noon, 98 " 9357 "

P. M.												
1				S.W. by W.	S.W. by W.	2	29.90	70	70	65	b.c.	cir-cum 4 S
2			51.9	N.W. 3/4 W.	W. N.W.	2	29.89	72	70	65	"	" 4 "
3	2	8	59.4	"	N.W.	2	29.88	72	69	64	"	" 5 "
4	2	21	68.4	N.W. by N.	"	2	29.87	72	69	63	"	" 6 "
5	8	9	74.3	"	"	2	29.86	71	69	62	"	cir-cu 2 "
6	4	2	76.1	N.N.W. 3/4 W.	W. by N.	3	29.86	69	66	62	"	" 6 "
7	3	4	77.3	N.W. by W. 3/4 W.	"	3	29.84	68	66	61	"	" 6 "
8	5	8	75.8	N. 1/2 E.	"	3	29.84	68	66	61	"	" 2 4 S
9	1	9	74.4	N. by E.	W. N.W.	2	29.86	64	65	61	"	"
8	4	0	65.5	N.N.E. 3/4 E.								
	6	4										
9	2	6	54.8	E. N.E. 1/2 E.	"	3-4	29.84	68	66	63	"	" 6 "
10	9	2	240	"	N.W.	3-4	29.84	69	66	63	"	" 8 "
11	4	4	39.1	E. N.E. 3/4 E.	"	3	29.84	70	66	63	"	cir-cum 9 "
Mid.	5	7	41.9	E. N.E. 3/4 E.	"	3	29.84	70	66	63	"	" 9 "

04 1/2 N 32°.42 E 136°.00

under the command of Commander T. F. Jewett, U. S. Navy,

Sunday May 22d, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Partially cloudy. Light airs to gentle breeze from S.W. Clear hazy.

A. F. Lecount
Ensign U. S. N.

From 4 to 8 A. M.

Overcast with cumulus clouds and light flying scud from S.W. 1st hour. Clearing afterwards. Clouds cir. cumulus from S.W. Light to moderate breeze from S.W. Moored ship & hove in to 20 fms on port chain. H.B.M.S. "Audacious" joined into dry dock.

H. C. Townsend
Ensign U. S. N.

From 8 A. M. to Meridian

Partially cloudy. Light to moderate breeze in squalls first hour from S.W. & W.S.W. At 9.30 turned to quarters for inspection, afterwards called all hands to muster & read G. O. No. 10 & Squad. Squadron Order No 6. By order of the Commdg Officer released J. Evans, Tailor, & L. E. Day 6 P.M. from sentry's chair. Held Divine Service, Archdeacon Mountain officiating. Brought to port chain. Distributing. H.B.M.S. "Audacious" came out of dock & took up old berth. By order of Commdg Officer confined J. F. C. Nebt, Seaman, in irons & water for two days.

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P.M.

Weather pleasant, partially cloudy. First hour of watch light breeze from S.W. by W, then light breeze from W.N.W. & N.W. At 1.00 called all hands and got underway and steamed out of the harbor. At 2.00 took departure Tejuca Head Light bearing (pc) S.W. by S, distant 1½ miles. P.L. 5.19 and set course N.W. 3/4 W. At 3.40 changed course to N.W. by W. P.L. 66.2. At 1.30 sent down topgallant yards & sent topgallant masts. Draft of ship fwd 14.6", aft 15.6".

A. F. Lecount
Ensign U. S. N.

From 4 to 6 P.M.

Clear & pleasant. Hazy over land. Gentle to moderate breeze from N.W. & W. by N. Ran smooth. At 5.00 changed course to N.N.W. 3/4 W. P.L. 78.1, at 5.20 to N. 3/4 W. P.L. 80.1, at 5.40 set fore & aft sail.

E. D. Galloway
Lieut U. S. N.

From 6 to 8 P.M.

Clear pleasant weather. Gentle breeze from W. by N. & light breeze from W.N.W. Long swell from W. last hour changed courses as follows: at 6.20 to N. ½ E.: 7.00 to N. by E.: 7.10 to N. by E. 3/4 E. at end of watch took end of Tejuca Head from S.E. by E. 3/4 E. dist about 4 miles.

L. L. Wasson
Lieut U. S. N.

From 8 P.M. to Midnight

Clear, bright starlight. Light cir str & cir cumulus clouds. Gentle to moderate breeze from W.N.W. & N.W. Long ocean swell. Smooth sea. Ship pitching easily. At 8.40, changed course to E. by N. ½ E. P.L. 12.2. Took in fore & aft sail. At 9.30, sighted Yokoi Light, right ahead. At 10.30, changed course to E. by N. 3/4 E. P.L. 28.5. At 11.20, Yokoi Light fine abeam, distant ⅛ mile, changed course to E. by N. 1/4 E. P.L. 38.8. Set fore & aft sail at end of watch Yokoi Light bore S.W. by W. 3/4 W. Under steam & fore & aft sail. Ac course N. E. by E. 1/4 E.

H. Townsend
Ensign U. S. N.

Examined and found to be correct.

L. L. Wasson, Lieut & Navigator.

LOG of the UNITED STATES "Steamer Essex", 3d Rate,

At Sea making passage through Inland Sea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	9	0	50.9	E. E. 1/4 E.	N. W.	3			29.86	68	64	60		b. c.	ir. cumu	8	2-g
2	6	2	54.1														
	2	9	60.0	N. E. " 1/4 E.	"	3			29.84	68	64	60		" l	"	8	"
3	4	4	64.4	N. E. by E. 1/2 E.	N. N. W.	3			29.84	64	62	60		"	"	6	"
4	9	2	74.5		"	3			29.85	66	61	59	63	b. c.	"	6	"
5	5	3	83.8	E. E. E. 3/4 E. E. E. E. 1/4 E. E.	"	2			29.86	65	62	59	64	"	"	7	"
6				E.	"	2			29.88	66	62	60	64	"	"	5	g
7			83.8		"	3			29.90	66	63	59	64	"	"	5	"
8	5	2	89.0	E. E. by E.	"	1			29.91	68	65	62	64	"	"	8	"
9	4	5															
	1	9	98.4	E. E. E. 1/2 E.	N. W.	1-3			29.92	70	64	64	64	"	cumu	8	"
10	9	6	108.0	"	West	3			29.90	70	67	64	64	"	"	8	"
11	9	3	117.3	"	"	3-5			29.90	69	66	63	62	"	"	9	"
Noon.	8	0	125.3	"	W. by N.	3-4			29.90	68	64	62	62	"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Dg. 1033

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1460 "

Coal consumed during the preceding 24 hours, 15 tons 320 lbs.

Coal remaining on hand at Noon, 83 " 981 "

P. M.													
1	9	4	34.1	E. E. E. 1/2 E.	W. by N.	3	29.88	70	68	63	60	b. c.	cir. cumu 6 g
2	5	3	40.2	E. E. E. 3/4 E.		3	29.88	70	68	64	60	"	" 6 "
	9	9	44.2	N. E. by E. 3/4 E.	"								
3	10	1	54.1	"	W. N. W.	3-4	29.86	68	64	59	60	"	" 5 "
	4	9	59.2										
4	5	6	64.8	N. E. by E. E. 1/4 E.		3	29.86	67	64	59	60	"	" 5 "
5	2	2	67.0	N. N. E. 3/4 E. N.	North	3-4	29.86	66	62	59	64	b. c. p. g.	mist 4 "
6	0	9	71.9	standing in for an anchorage ship's head		3-5	29.88	64	60	57	64	b. c. g.	mist 0 "
No apparent tide				W. S. W.	West	2	29.88	66	61	58		b. c. p.	cir. cumu 5 "
8				"	South	1	29.88	66	62	59		b. c.	" 8 "
9				"	S. S. E.	1	29.90	66	62	60		"	" 9 "
10				S. W. by W.	N. N. W.	1	29.91	64	62	60		b.	nmc 10 "
11				"		1	29.93	68	61	60		"	" 10 "
Mid.				W. N. W.	Calm	0	29.94	68	61	60		.	. 10 "

under the command of Commander T. F. Jewell U. S. Navy,

Monday May 23d., 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.

Clear & pleasant. Gentle to moderate breze from N. W. & N. N. W. at 1/4 changed course to N. E 1/4 E & at 2.28 to N. E by E 1/2 E. at 1.00 lost sight of Yobuchi Lt bearing S.W. by W 1/2 W. at 4 o clock to me Sen. Took in fore & aft sail & changed course to W. S. W. Naxii Sima N. E. by E 1/2 E. & Sno Sima (Northern) S. by E. Ships Head W. S. W.

W B Hoggatt
Ensign U. S. N.

From 4 to 8 A M

Clear & pleasant. Light to, gentle breze from N. N. W. at 4 o clock slowed down & stood off shore waiting for daylight. at daylight went ahead full speed, entered the Straits of Shimonoseki & hauled in P. L. at 1/2 to passed through, had Idaki Lt abeam, lost sight of P. L. and set course S. E. by E.

C A Mellvaine
Ensign U. S. N.

From 8. A. M. to Meridian

Clear & pleasant. Gentle to moderate breze from N. W. west & W. N. W. Sea smooth. At 8 oc set foresail & fourboat sail. at 8 1/2 to red buoy off bow abeam. changed course to E. S. E 1/2 E. at 9 oc crossed top gallant yards. at 9 30 exercised at General Quarters. Times 1st div 3.05", 2d. 1.50" 3d. 2.05" for 3.05", Powd 2 1/2 lbs Engs 1.55", Marines 1.05". The magazine & shell room flood cocks were tested & found in order. At 10 oc Summary Court Martial commenced Lieut B. F. Watling, P. A. Eng Barton Members, Ensign W. B. Hoggatt Recorder. Lieut C. S. Galloway Senior Member, for the trial of W. Horan W. F & such other persons &c &c. at 10 oc Court adjourned until 10 a.m. May 24th at 11 oc Set Main topsail & top gallantsail hauled down Jib.

C S Galloway
Lieut U. S. N.

From Meridian to 4 P M.

Clear pleasant weather. Gentle breezes from W by N. Gentle to moderate breezes from W. N. W. at 1.34 changed course to E N. E 3/4 E. Ya Sima abeam 4 miles distant. At 1.55 changed course to N. E by E 3/4 E & at 3.10 to N. E by E 1/4 E. at 4.10 Yaei Sima bore N. N. E. 4 miles distant. At 2.45 set main topsail. at end of watch under steam & plain sail to top gallantsails.

L S. Dewey
Lieut U. S. N.

From 4 to 6 P. M.

Partly clear with cir cumu clouds until 4 40, when wind hauled ahead & a heavy round squall from North struck the ship, relieved by rain. Squally afterwards with minutes clouds and continued rain. Wind blowing from gentle to one fresh breze. Took in & furled all sail at 4 40 after which time steering in for an anchorage under Naka Sima in charge of Cond'g Officer. at 4 43, changed course to N. E 1/4 E, P. L 6 1/2. at 5 33, came to with starboard anchor (30 fms chain) in 7 fms water. Banked fires. Broke glass of chart board accidently. Draft of ship fwd 14 3" aft 15 3"

H C Bowyer
Ensign U. S. N.

From 6 to 8. P M

Overcast with drizzling rain first part clearing towards end of first hour. Seems low clear bright & cool. Light breze from east decreasing to light airs from South. At 7 30 current set 1.6 knots N. E by N.

W B Hoggatt
Ensign U. S. N.

From 8. P M to Midnight

Clear & cool. Light breze from S. S. E. during first hour, then from N. N. W. Calm

A A Ellyson
Ensign U. S. N.

Examined and found to be correct.

S. W. Watkins, Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage through Inland Sea

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. E.	Calm	0			29.92	62	60	58		bc.	cumu	6	S
2				W. by N.	"	0			29.90	62	61	58		"	"	6	"
3				S. E. by S.	W. S.W.	0-1			29.90	62	62	59		"	"	5	"
4				S.W. by W.	"	1			29.90	62	62	59		"	"	5	"
5	1	9	46.2	N. E. 1/4 N.	E. N. E.	1			29.91	63	60	57		bc.	cu. cir. cumu	4	"
6	9	5	85.7	"	North	2			29.93	63	61	59		"	"	4	"
7	9	4	95.1	Changing course to suit the channel.	S. E. by S.	2			29.95	64	61	58	61	"	"	8	"
8	4	9	104.8	E. by S.	S. E.	2			29.96	64	61	57	61	bc.	"	8	"
9	6	5	13.8	E. N. E.	N. E. by E.	2-3			29.98	63	61	58	61	"	"	6	"
10	9	1	22.9	"	"	2-3			29.98	65	62	58	62	"	"	4	"
11	5	7	31.9	N. E. by E. 1/4 E.	Calm	0			29.98	66	63	59	62	"	"	8	"
Noon.	8	1	40.0	E. N. E.	"	0			29.99	67	64	60	62	"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Dg. 1032

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 360 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1100 "

Coal consumed during the preceding 24 hours, 8 tons 1200 lbs.

Coal remaining on hand at Noon, 24 " 2032 "

P. M.														
1	9	0	49.0	E. by E. 1/2 E.	Calm	0	29.95	64	62	60	62	bc.	cir. cumu	2	S
2	9	1	58.1	S. E. by E. 3/4 E.	E. N. E.	2	29.94	64	62	59	63	"	"	2	"
3	9	0	67.1	E. N. E. 1/2 E.	"	1	29.93	66	64	58	64	"	"	5	"
4	9	4	76.5	E. N. E.	North	3	29.95	66	64	59	64	"	"	3	"
5	9	6	86.1	E. by E. 3/4 E.	N. N. W.	3	29.94	65	63	56	62	"	cumulus	2	"
6	8	6	84.7	E. by E. 1/4 E.	N. N. E.	4	29.94	64	62	58	62	"	"	2	"
7	9	0	103.7	E. by E. 1/2 E.	E. N. E.	3	29.95	66	61	54	62	"	cir.	5	"
8				East N. E.	"	2	29.96	65	62	54	62	"	"	4	"
9	Ships Log			N. E. by N.	N. E.	2	29.98	65	62	54		"	"	3	"
10				E. by N.	East	1-2	30.00	64	62	54		"	"	4	"
11				East	"	1-2	30.01	64	62	54		"	"	4	"
Mid.				E. by E.	"	1-2	30.02	66	62	58		"	"	6	"

Dg. 1033
N 34.38
E 135.00

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday May 21st, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends A. M.

Fair & cool. Gauns & light airs from W. & W. Ship going head to S. E. at 3 o'clock

E. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M.

Clear pleasant weather. Light airs from E. N. E. Light breezes from North. N. E. & E. at 4 called "Up Anchor". Got underway & stood out through Kanmina Strait, passed out at 4.20 & set course E. N. E. ½ E. at 8.00 Kagi Sima bore West about 3 miles distant. Passed two steamers standing to W. Ships Draft fwd 14'.2", 15.2" aft.

P. G. Wasing
Lieut U. S. N.

From 8 A. M. to Meridian

Clear & bright with light cir cumu clouds. Light to, gentle breze from E. & S. E. first part. Calm afterwards. Steaming thro' St Vincent Channel & Inland Sea, changing course frequently to suit channel. At 9 A. M. went to quarters for inspection, after which drilled as follows 1st, 2d & 3d divisions Great Guns, Marines Skirmish & Sail. Relieved J. F. B. Kobt, Spunner, the prisn for which he was confined having expired. Placed P. Rattledge Sea. 2. C, in confinement for two days, on bread & water for insolence to Officer of Watch. Summary Court Martial met, at 10 A. M. for trial of J. Mosier. P. M., & adjourned, at 11 A. M. to await action of reviewing authority. Under steam alone. At end of watch Naval Signal Station abeam (pc) N. ½ E.

Inspected Gun Locks Primers & Electric apparatus & found them in good order

N. C. Tomlinson
Ensign U. S. N.

From Meridian to 4 P. M.

Clear first part, clouding up last part. Calm. Light airs to gentle breze from E. N. E. & N. N. W. Steaming through Inland Sea changing course frequently to suit channel, at 3.50 set fore & aft sails & foresail. At end of watch Kobe Sima bore N. W. by W. (pc)

W. B. Hoggatt
Ensign U. S. N.

From 4 to 6 P. M.

Cloudy. Gentle breze from N. N. W. hauling to N. N. E. freshening by end of watch. Steering for Akashi Straits. At 4.30 took in sail.

C. S. F. Dunlap
Ensign U. S. N.

From 6 to 8 P. M.

Clear & Cool. Gentle breze from N. E. & E. N. E. Smooth Sea. At 6 P. M. changed course to E. N. E. At 6.20 to E. by N. At 6.30 secured at quarters. At 7 P. M. changed course to East. Light bearing out. At 7.30 changed course to N. E. Took in fore & aft Sails. During remainder of watch standing in for an anchorage in harbor of Kobe.

E. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight.

Cloudy. Light breezes from N. E. Light airs & breezes from East at 8.10 came to with starboard anchor in harbor of Kobe, Japan, in 5½ fms, veering to 30 fms chain. Received an official visit from an officer of H. M. S. "Leander". Transferred M. F. Geyer S. a. 2. C, to hospital for treatment. Hauled fires under boilers 3 & 4 banked remaining four fires. Commenced distilling, at 11.00. Draft of ship fwd 14', aft 15.2. Bearing of anchorage Red Light N. W. by W. ½ W. Oldo Misaki Lt. Shp W. ¾ S.

P. G. Wasing
Lieut U. S. N.

Examined and found to be correct.

S. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Kobe.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S.E.	Variable	1			30.00	62	61	54		b.c.	cirrus	4	S.
2				S. S.W.	"	1			30.00	62	61	54		"	"	4	"
3				"	North	1			30.00	61	60	56		"	"	4	"
4				N.W. by N.	"	2+			29.98	60	59	55		"	"	8	"
5				N.W. by W.	"	2			30.00	60	58	54		b.c.	Str.	4	"
6				"	N.N.E.	1			30.03	60	58	54		"	"	6	"
7				North	"	1			30.05	60	58	55		"	cirrus	4	"
8				E.N.E.	N.N.W.	1			30.02	62	59	56		"	"	3	"
9				N.N.E.	East	1			30.08	62	60	56		"	cumu	3	"
10				N by E.	"	1			30.10	62	60	56		"	"	2	"
11				North	"	1			30.09	63	61	59		"	"	2	"
Noon.				N.E. by N.	S.E.	1			30.09	64	61	59		" d.	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, Four gallons.

Water Distilled during the preceding 24 hours, 1850 "

Water remaining on hand fit for use at Noon, 2550 "

Coal consumed during the preceding 24 hours, 6 tons 1810 lbs.

Coal remaining on hand at Noon, 68 " 211 "

P. M.													
1		N by E.	East	1	30.08	64	63	58	b.c.	cumulus	1	S.
2		S.E.	S.W.	1	30.06	63	61	56	"	"	2	"
3		S.W. by W.	"	1	30.06	63	61	54	"	"	1	"
4	Flood	S.W. by S.	"	2	30.05	63	61	54	b.c.	cir-cumu	3	"
5		S.W. by S.	Calm	0	30.05	63	61	58	"	"	3	"
6		E.S.E.		0	30.05	64	62	58	"	cir cumu	2	"
7	Ebb	N.N.E.	N.N.E.	1	30.06	63	61	54	"	"	2	"
8	"	"	"	1	30.06	62	61	56	"	cumu	9	"
9		"	"	2	30.08	62	58	54	b.	none	10	"
10		N.E. by N.	"	2	30.09	62	58	54	b.c.	"	10	"
11		N.E.	N.E.	2	30.10	62	58	55	b.	"	10	"
Mid.		"	N.E. by E.	2	30.11	62	58	55	"	"	10	"

under the command of Commander T. F. Frost, U. S. Navy,

Wednesday May 25th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A. M.

Generally clear with cir-cumu clouds. Bright starlight. Light variable airs first part. Light airs to moderate breeze from North latter part. Squally last hour. Distilling.

A. H. Tomlinson
Ensign U. S. N.

From 4 to 8 A. M.

Clear first part, cloudy last part. Light airs & breeze from N. E. to N. N. W.

W. B. Hoggatt
Ensign U. S. N.

From 8 A. M. to Meridian.

Overcast & cloudy with drizzling rain during last ten minutes. Light airs from East & S. E. At 9.30 inspected at quarters. Drilled 1st, 2d & 3d divs at Great Guns. At 10. on riggs out, sailing launch, after which exercised all pulling boats at boat Drill & Fleet Tactics. Sent an officer ashore to make an official visit to the American Consul. Received visits from officers of the Japanese man-of-war "Kaimai" & French Gunboat "Vipere". At 11.15 hauled fires to eight under two boilers for distilling.

C. A. P. Scriven
Ensign U. S. N.

From Meridian to 4 P. M.

Fair & Cool. Light airs from S. W. At 1.0 called away all boats" Exercised at Naval Tactics under oars. At 2.0 Boarding Officer left ship to pay official visits returning at 2.30. At 2.45 Vice Consul of U. S. paid official visit to ship for U. S. Consul. Sent to Hospital M. Fitzgerald, Ord. Seaman. Exercised Signal Class.

C. P. Galloway
Lieut U. S. N.

From 4 to 8 P. M.

Generally clear & pleasant. Calms and light variable airs. At 6.15 mustered at quarters. At 7.30 stopped distilling, the tanks being full & hauled fires.

C. A. P. Scriven
Ensign U. S. N.

From 8 P. M. to Midnight.

Clear and pleasant. Light airs from N. E. Lightning along horizon to the E. Sea smooth.

C. P. Galloway
Lieut U. S. N.

Examined and found to be correct.

S. P. Madrans, Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Kobe

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				East	W. N. W.	1			30.10	58	54	52		b.c.	cir	9	S
2				North	"	1			30.10	58	54	54		"	"	9	"
3				S. W. by W.	Calm	0			30.08	54	54	55		"	"	9	"
4				W. by S.	"	0			30.08	54	56	54		"	"	9	"
5				North	N. W.	1			30.09	54	56	54		b.cum.	cir.cum.	8	"
6				N. E. by N.	Calm	0			30.09	54	56	54		b.cum.	cum.	10	"
7				E. by N.	E. by N.	1			30.10	60	58	55		"	"	10	"
8				East	"	1			30.10	61	60	54		b.cum.	cir.cum.	6	"
9				E. & E.	E. & E.	1			30.11	61	60	54		"	"	5	"
10				East	"	1-2			30.12	62	60	54		"	"	2	"
11				N. E.	"	1-2			30.13	66	64	59		b.c.	"	6	"
Noon.				North	"	1			30.11	64	65	60		"	"	6	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 430 gallons.

Water Distilling during the preceding 24 hours, 430 "

Water remaining on hand fit for use at Noon, 2250 "

Coal consumed during the preceding 24 hours, tons 1840 lbs.

Coal remaining on hand at Noon, 67 " 611 "

P. M.													
1			West	South	2		30.09	64	66	60	b.c.	cir.cum.	3
2			W. & W.	S.W.	2		30.06	66	65	60	"	"	3
3			S.W.	"	2		30.06	64	66	59	"	"	3
4			"	"	3		30.05	64	66	59	"	"	3
5			S.W. by W.	"	2		30.06	64	66	59	"	"	3
6			West	West	1		30.06	64	65	59	"	"	2
7			N.W. by N.	N.W.	1		30.05	66	64	59	"	"	2
8			N. by W.	West	1		30.04	65	64	59	"	"	2
9			N. by E.	"	1		30.06	60	64	59	"	"	4
10			N. N. E.	N. E.	1		30.04	65	63	59	"	"	5
11			N. E.	"	1		30.08	65	62	58	"	"	4
Mid.			"	"	1		30.09	58	62	58	"	"	4

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday May 26th, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 A. M.

Clear and cool. Calm and light airs from W. to W.

A. F. Dewitt
Ensign U. S. N.

From 4 to 8 A. M.

Clear pleasant weather. Light airs from N. W. and E. by N. and calms. At 5.30 sent royals and flying jib and crossed topgallant and royal yards. Received on board and issued to crew 126 lbs fresh meats, 126 lbs fish vegetables and 101 lbs fresh bread.

P. E. Wadsworth
Lieut U. S. N.

From 8 A. M. to Meridian

Fair and warm. Light breeze from S. E. Sea smooth. At 9.30 mustered at quarters. At 10.00 sail, drill, making and shortening sail. Sent down topgallant and royal yards, housed topgallant masts twice, sent up, fidded and stayed masts. Released from confinement P. Rutledge, Sea. 2 C, his time having expired. Placed F. J. Jordan, Sea. 2 C, in confinement on bread and water for two days by order of Duty Officer for insolence to Master at arms.

E. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.

Hazy weather. Light breezes from South. Light to gentle breezes from S. W. At 1.20 commenced drilling. Received an official visit from Comdg Officer of H. I. J. M. S. "Kaiman".

P. H. Watling
Lieut U. S. N.

From 4 to 8 P. M.

Fair and cool. Light variable airs. Stopped distiller tanks being full and hauled fires in boilers 1 and 3.

E. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight

Hazy pleasant weather. Light airs from west and N.

P. H. Watling
Lieut U. S. N.

Examined and found to be correct.

A. N. Mathews Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d. Rate,

At Anchor off Kobe.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
1 M.				Ships Head													
1				Apparent tide	N.E. by E.	N.E.	1		30.06	62	61	58		Fair.	cumi. cumu.	4	5
2					E.N.E.	"	1		30.05	62	61	58		"	"	4	"
3					"	"	1		30.04	62	61	58		"	"	3	"
4					E. by S.	Squalls	0		30.05	62	61	58		"	"	2	"
5					East	N.E.	1		30.06	62	61	58		Fair.	"	0	"
6					E.N.E.	"	2		30.06	63	61	58		"	"	0	"
7					"	East	2		30.06	63	61	57		"	"	0	"
8					"	"	3		30.06	62	61	57		"	"	0	"
9				N.E. by E.	"	"	3		30.05	62	62	59		"	"	0	"
10				N.E.	"	"	2-3		30.03	64	62	60		"	"	0	"
11				N.E. by E.	E. by S.	E. by S.	2		30.05	65	63	61		"	"	0	"
Noon.				E.N.E.	"	"	2		30.02	65	64	61		"	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ′ ″

Longitude by D. R. ° ′ ″

Latitude by observations of ⊙ ° ′ ″

Longitude by chronometer from Forenoon Observations of ⊙ ° ′ ″

Position at 8 a. m. Latitude by ° ′ ″

Longitude by ° ′ ″

Position at 8 P. M. Latitude by ° ′ ″

Longitude by ° ′ ″

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ′ ″

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Variation of the Compass by Azimuth ⊙ observed at " ° ′ ″

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 350 "

Water remaining on hand fit for use at Noon, 2400 "

Coal consumed during the preceding 24 hours, tons 2 2001 lbs.

Coal remaining on hand at Noon, 66 " 651 "

P. M.								
1	N.E.	Squalls	0	30.04	66	65	62	0 5
2	North	"	0	30.03	64	66	63	0 "
3	N.E. by N.	"	0	30.03	64	66	63	0 "
4	E. by S.		0	30.01	66	65	62	0 "
5	N.E. by E.	N.E.	2	30.00	66	65	62	0 "
6	E. by N.	E.N.E.	2	29.99	66	65	63	0 "
7	E.N.E.	"	3	30.00	65	64	61	0 "
8			3	29.99	65	64	61	0 "
9	N.E. by E.	N.E. by E.	3-4	29.98	65	64	60	0 "
10	"	"	3-4	29.98	65	64	60	0 "
11	"	"	3-4	29.98	65	63	60	0 "
Mid.	"	"	3-4	29.96	65	63	60	0 "

under the command of Commander T. F. Jewell, U. S. Navy,
Friday May 2nd, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Cloudy and cool. Clouds cumi & cumu. Rainy appearances. Light airs from N. E. Calm last hour. No tide.

Lt. H. C. Longstreet
Ensign U. S. N.

From 4 to 8 A. M.
Overcast and cool. Light N. E. breze gradually increasing towards close of watch. Made preparations for landing battalion in light marching order. Issued in Pay Dept for crew 26¼ lbs beef, 26¼ lbs vegetables and 10 lbs soft bread.

Lt. D. Galloway
First U. S. N.

From 8 A. M. to Meridian
Overcast pleasant weather. Light to gentle breezes from East. Light breezes from E by S. Lt and Adjt Officer paid an official visit to H. M. S. Leander at 9. as sent Ships Landing party ashore for Battalion Drill. Landing party returned at 11:40.

Lt. D. E. Wallace
First U. S. N.

From Meridian to 4 P. M.
Overcast and cloudy. Light, drizzling rain at intervals after the 1st hour. Calm. No tide. At 1P. went to muster and published Station & Order No. 11, also sentences of S. C. No. in cases of James Doran, W. Tar, & E. Kendrick, Oiler, and Joseph Wolcott, P.M. First two sentenced to, deprivation of liberty on shore for three months and last to, confinement in double irons for fifteen days and to three months extra police duty. Sentences severe, approved by officer ordering the court and Senior Officer Present and Post Master confirming same, accordance with his sentence. Scrubbing boats inside and outside. H. M. S. Leander left the harbor. Scraping boat Spars.

Lt. H. C. Longstreet
Ensign U. S. N.

From 4 to 8 P. M.
Overcast pleasant weather with, occasional, drizzling rain. Hoisted at 6:15 sounded fire alarm. All streams in 1 minute & 5 secnds. Secured in 2 minutes and 10 secnds.

Lt. D. E. Wallace
First U. S. N.

From 8 P. M. to Midnight
Cloudy and squally. Clouds cumi & nimb. Rainy appearances. Gale finally to stiff breze in squalls from N. by E. Apparent tide.

Lt. H. C. Longstreet
Ensign U. S. N.

Examined and found to be correct.

D. W. Wardwell First Navigator.

LOG of the UNITED STATES Steamer "Esui", 3d Rate,

At Anchor off Kobe.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
P. M.																	
1			Patent Hide	N. E. by E.	N. E. by E.	3-4			29.91	64	63	60		b.c.q.	cum. cumb.	3	4
2				"	"	3-4			29.88	65	63	60		b.c.q.	cumb.	0	"
3				"	"	4-5			29.85	65	64	60		"	"	0	"
4				"		4-5			29.85	66	64	60		"N	"	0	"
5				"	N. E.	4-5			29.84	66	63	60		"	"	0	
6				"	"	4-5			29.84	66	62	60		"	"	0	"
7				"	"	3-4			29.88	66	62	60		"	"	0	"
8				"	"	3-4			29.86	66	62	60		"	"	0	"
9				"	"	3-4			29.84	66	62	60		c.q.r.	"	0	1
10				"	"	3-4			29.82	66	62	60		"	"	0	"
11				"	"	3-4			29.80	66	62	60		"	"	0	"
Noon.				"	"	4-5			29.79	66	63	61		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2300 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 66 " 2500 "

P. M.																	
1				N. E.	N. E.	4-5			29.74	64	64	61		c.q.r.	cumb.	0	N
2				N. E. by E.	"	4-5			29.75	64	63	61		"	"	0	"
3				E. N. E.	"	4-5			29.75	66	63	61		"	"	0	"
4				N. E.	"	4-5			29.74	65	63	61		"	"	0	"
5				"	"	4-5			29.74	65	63	61		"	"	0	"
6				"	"	4-5			29.74	65	63	61		"	"	0	"
7				"	"	4-5			29.75	65	63	61		"	"	0	"
8				"	"	4-5			29.75	65	63	61		"	"	0	"
9				N. E. by E.	"	4-5			29.73	65	63	61		c.q.	"	0	"
10				"	"	4-5			30.74	65	63	61		"	"	0	"
11				"	"	3-4			30.74	66	63	61		"	"	0	"
Mid.				"	"	3-4			30.75	66	63	61		"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,
Saturday May 28th, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Overcast & squally. Raining last half hour. Gentle to stiff breeze in squalls from N. E. by E.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.
Overcast & raining. Gentle to stiff breeze in squalls from N. E. Received on board 126¼ lbs Fresh Beef, 126¼ lbs Fresh Vegetables & 101 lbs Fresh Bread and issued to Ship's Company. At 7:15 crossed Topgallant-yards.

D. D. Wemyss
Lieut U. S. N.

From 8 A. M. to Meridian
Cloudy with continual light-rain. Clouds rising. Gentle to stiff breeze in squalls from N. E. Moderate sea from N. E. Ship easy. Returned J. Jordan, Pa 2 C, the crew for which he was composed having expired.

A. C. Longstaff
Ensign U. S. N.

From Meridian to 4 P. M.
Overcast & cloudy with continual light rain. Moderate to fresh breeze in squalls from N. E. Moderate sea from N. E.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 P. M.
Cloudy & raining. Clouds rising. Moderate to fresh breeze in squalls from N. E. Moderate sea. Ship easy.

A. C. Longstaff

From 8 P. M. to Midnight.
Ensign U. S. N.
Overcast cloudy & squally. Gentle to stiff breeze in squalls from N. E. moderating towards end of watch. Moderate decreasing sea.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

S. W. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Kobe

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky; in 10ths.	State of the Sea.
A. M.																	
Apparent hide				N. E by E.	N. E.	3-4			29.73	66	64	63		o.c.g.	cum nim	2	N
2				"	"	3-4			29.71	66	64	62		"	"	2	"
3				"	"	3-4			29.71	66	64	62		"	"	0	"
4				E. N. E	"	3-4			29.69	66	65	62		"	"	0	"
5				N E by E	"	3			29.71	66	65	62		b.c.	"	1	"
6				E by N	"	2			29.73	65	64	62		o.c	"	0	"
7				"	E N. E	2			29.73	66	64	62		"	"	0	"
8				East	"	1-2			29.74	66	65	63		"	"	0	"
9				E by N.	E by N.	1			29.74	66	65	63		"	"	0	"
10				E S E.	S S E.	1			29.74	66	65	63		"	"	0	"
11				South	S W.	1			29.74	67	66	63		"	"	0	"
Noon.				"	"	1			29.75	67	66	63		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 4 tons gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 190 tons "

Coal consumed during the preceding 24 hours, tons 2/60 lbs.

Coal remaining on hand at Noon, 65 " 1/31 "

P. M.																	
1				S by W.	South	2			29.73	67	66	63		fc	cir cum	4	S
2				S W by S	S W.	2			29.73	68	66	63		"	"	3	"
3				S S W.	"	2			29.70	69	67	64		"	"	3	"
4				"	South	2			29.70	68	67	64		"	"	5	"
5				S by W.	West	1			29.72	69	68	64		"	"	2	"
6				W. S W.	"	1			29.73	69	68	64		"	"	4	"
7				N. N. E.	N. N. E.	2			29.76	69	67	63		"	"	4	"
8				N E by E.	N. W.	1			29.74	69	67	63		"	"	6	"
9				N by E.	North	1			29.76	69	67	63		"	"	7	"
10				North	"	1			29.78	69	67	63		"	"	8	"
11				"	"	1			29.81	69	67	63		"	"	6	"
Mid.				N N. E.	"	1			29.81	67	65	62		"	"	9	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday May 29th, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A.M.
Cloudy. Little to moderate breeze from N. E.

A. F. Dechert
Ensign U. S. N.

From 4 to 8 A.M.
Cloudy with cum & nimb clouds. Rainy appearances. Light airs to, gentle breeze from E.N.E. & N.E. Received on Pay Dept. for issue to crew 126 1/4 lbs each of fresh beef & vegetables & 101 lbs bread. In cleaning broke pin of hammer of No 1 gun, starboard.

H. Townsend
Ensign U. S. N.

From 8 A.M. to Meridian
Overcast cloudy & pleasant. Light variable airs. Went to quarters for muster & inspection at 9:30, afterwards held Divine Service. H. I. J. M. S. "Kaiuma" went to sea at 9:45.

W. B. Haggatt
Ensign U. S. N.

From Meridian to 4 P.M.
Generally cloudy. Light breeze from South & S.W.

A. F. Dechert
Ensign U. S. N.

From 4 to 8 P.M.
Partly clear & pleasant. Light airs & breeze from West to N.N.E.

W. B. Haggatt
Ensign U. S. N.

From 8 P.M. to Midnight
Clear & pleasant. Light airs from North.

A. F. Dechert
Ensign U. S. N.

Examined and found to be correct.

F. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Kobe.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
Apparent time				North	Calm	0			29.81	65	64	61		b.c.	cir cum	9	S
2				E. by N.	"	0			29.81	65	64	61		"	"	9	"
3				N. E.	"	0			29.81	64	63	61		"	"	6	"
4				W. by N.	"	0			29.81	63	62	60		"	"	3	"
5				North	"	0			29.80	65	63	60		b.c.f.	"	4	"
6				N. W. by W.	"	0			29.82	65	63	61		"	cum nim	6	"
7				S by E	S by E	1			29.83	64	62	60		b.c.	"	0	"
8				S S W.	S S W.	1			29.83	65	63	61		"	"	0	"
9				N W by W.	West	1			29.82	65	64	62		"	"	0	"
10				S S W.	S W.	1			29.82	66	64	62		"	"	0	"
11				S W.	"	0-1			29.82	68	66	63		b.c.	cir cum	6	"
Noon.				South	South	0-1			29.82	69	67	63		"	"	4	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water ——————— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1500 "

Coal consumed during the preceding 24 hours, tons 1480 lbs.

Coal remaining on hand at Noon, 65 " 251 "

P. M.																	
1				E. S E.	South	1			29.80	70	68	64		b.c.	cum	6	S
2				"	"	1			29.79	70	64	64		"	"	4	"
3				N. by E.	Calm	0			29.78	70	64	64		"	"	5	"
4				West	"	0			29.78	70	64	64		"	"	4	"
5				S W. by W.	"	0			29.77	70	68	64		"	"	2	"
6				"	"	0			29.77	70	69	65		"	cum nim	1	"
7				"	"	0			29.77	70	69	64		b.c.	"	0	"
8				W. S W.	West	1			29.78	69	69	64		"	"	0	"
9				S W. by W.	Calm	0			29.81	70	69	65		b.c.nd	"	0	"
10				W. S W.	"	0			29.82	70	69	66		"	"	0	"
11				W. by W.	"	0			29.82	70	68	66		"	"	0	"
Mid.				"	"	0			29.82	70	68	66		"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,

Monday May 30th, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Mid. to 4 A. M.
Clear & pleasant, gradually clouding over last half of watch. Calm.

T. F. Toomis
Ensign U. S. N.

From 4 to 8 A. M.
Partly clear pleasant calm. Received 126 1/4 lbs fresh beef, 126 1/4 lbs fresh vegetables & 101 lbs fresh bread.

W. B. Hoggatt
Ensign U. S. N.

From 8 A. M. to Meridian.
Cloudy first half then clearing. Calms & light airs from S.E. & E. at 9.30 called all hands & cleared ship for action. Then mustered at Gunnel Quarters.

A. F. Lechler
Ensign U. S. N.

From Meridian to 4 P. M.
Fair clouding over last hour of watch. Hazy around horizon. Light airs from S. first half, calm last half of watch.

T. F. Toomis
Ensign U. S. N.

From 4 to 8 P. M.
Overcast & cloudy. Calm & light airs from West.

A. F. Lechler
Ensign U. S. N.

From 8 P. M. to Midnight.
Overcast cloudy, thicky & drizzling rain. Calm.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

A. T. Mahan Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Kobe

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ships Head													
Apparent tide				N. E by E.	N. E.	1			29.83	70	68	66		o.c.r.	cumulus	0	S.
2				"	"	1			29.84	70	68	66		"	"	0	"
3				"	"	1-2			29.80	70	66	65		"	"	0	"
4				E by N.	"	1-2			29.79	69	66	64		"	"	0	"
5				N. E by E.	E N. E.	2			29.77	69	65	63		"	"	0	"
6				E N E.	"	2			29.76	69	65	63		o.cur.	"	0	"
7				"	"	3			29.76	69	65	63		"	"	0	"
8				E by N.	"	3			29.75	69	65	63		"	"	0	"
9				East	"	2			29.76	68	66	64		o.c.	"	0	"
10				E N. E.	"	1			29.76	68	69	65		o.c.	"	0	"
11				West	West	0-1			29.77	68	69	65		o.c.	"	0	"
Noon.				W. by S.	Calm	0			29.77	68	69	66		"	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 380 gallons.

Water ——————during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 11120 "

Coal consumed during the preceding 24 hours, tons 18to lbs.

Coal remaining on hand at Noon, 624 " 651 "

P. M.																	
1				W. S.W.	W. by W.	1			29.76	69	67	66		o.cur.	cir. cum.	0	S.
2				W. by W.	"	1			29.77	69	68	66		o.c.	"	0	"
3				W. by W. by W.	"	1			29.77	70	68	66		"	"	0	"
4				W. by W.	"	1			29.78	70	68	66		"	"	0	"
5				"	N. E	1			29.78	70	68	66		"	"	0	"
6				"	"	1			29.78	70	68	66		"	"	0	"
7				N. E	"	1			29.81	68	67	65		"	"	0	"
8				E. by E.	E. by E.	1			29.81	67	66	65		"	"	0	"
9				E. by E.	E. by E.	1			29.81	68	67	65		o.cur.	"	0	"
10				E N E.	Calm	0			29.80	68	67	65		"	"	0	"
11				East	"	0			29.80	68	67	64		"	"	0	"
Mid.				S. E by E.	"	0			29.79	68	68	64		"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,
Tuesday May 31st, 1864.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and until 4 A. M.
Overcast with light rains. Light breez from N. E.
C. D. Galloway
Lieut U. S. N.

From 4 to 8 A. M.
Overcast & cloudy with, occasional light drizzling rain during first & last hours. Light to gentle breez from E. N. E. at 7 ro hoisted in Steam cutter. at 7. 10 Sent down T. Gft Yards, sent light Sails & then crossed T. Gft & Royal Yards.
A. F. Dewitt
Ensign U. S. N.

From 8 A. M. to Meridian
Overcast & rainy, thick weather. Light breezs from E. N. E & veer to the Southward. At 9. 30 quarters. Exercised 1st, 2d & 3d Divs at Great Guns, Pistol at Stations. Filled four shell for 3" R. L. R. Ordnance Officer inspected fuzes of Shells, on deck. Repairing Steam launch's engine. Started fires at 8. in four boilers, banked fires.
C. D. Galloway
Lieut U. S. N.

From Meridian to 4 P. M.
Overcast misty weather. Light airs from W. N. W.
P. R. Watkins
Lieut U. S. N.

From 4 to 8 P. M.
Overcast & damp. Light breez from N. E. at 6. 0 mustered at quarters. Distilling.
C. D. Galloway
Lieut U. S. N.

From 8 P. M. to Midnight
Overcast, misty Light airs from E. S. E. first hour, calm last part. Distilling.
W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

A. W. Wadham, Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Anchor off Kobe.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
Unapparent hide				E. N. E.	Calm	0			29.80	68	64	66		b. cu.	cumb	0	S
2				N. E by E.	"	0			29.80	68	64	66		"	"	0	"
3				N. E by N.	"	0			29.80	64	66	65		"	"	0	"
4				N. by E.	"	0			29.80	64	66	65		b. cu.	cum cumb	1	"
5				"	"	0			29.81	64	66	65		o. c.	"	0	"
6				"	"	0			29.84	64	66	65		"	"	0	"
7				"	"	0			29.84	69	66	65		b. c.	"	2	"
8				W. N. W.	"	0			29.89	69	66	65		"	"	2	"
9				S. W. by S.	"	0			29.89	68	66	65		b. cu.	cu cumb	2	"
10				S. S. W.	S. S. W.	1			29.89	69	64	66		"	"	1	"
11	Standing out of harbor			"	"	1			29.89	70	69	66		"	"	1	"
Noon.	5	6		S. S. W. ½ W.	"	1			29.89	70	69	66		"	"	1	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

04.1034

Position at 8 a. m. Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. Latitude by D R N 34 ° 12 "
Longitude by by bearings of S. End of Rocca Sima E 135 ° 01 "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 380 gallons.

Water Distilled during the preceding 24 hours, 1760 "

Water remaining on hand fit for use at Noon, 2501 "

Coal consumed during the preceding 24 hours, 3 tons 490 lbs.

Coal remaining on hand at Noon, 60 " 2101 "

P. M.																	
1	2	3	13 2	S. S. W. ½ W.	Calm	0			29.88	72	71	68	64	b. cu.	cu cumb	4	S. S
2						0			29.82	73	72	69	64	"	"	2	"
3					S. W.	2			29.82	72	70	65	64	"	"	2	"
4	4		31.3	"		2			29.82	72	70	69	64	"	"	3	"
5	Ships Head			N. E by N.	N. W.	1			29.82	71	70	69		"	"	2	S
6				E. N. E.	"	1			29.82	71	70	69		"	cumb	2	"
7				E. by E.	S. " E.	1			29.88	71	70	68		o. c.	"	0	"
8			31.3	N. E by E.	S. S. E.	1			29.89	72	72	69		b. c.	cu cumb	6	"
9	4	3	35.6	S. ½ W.	South	1			29.92	71	70	68	65	b. cu.	"	2	"
10	2	1	42.1	"	"	1			29.92	71	70	68	65	"	"	2	"
11	2	1	49.8	"	"	1			29.94	71	70	68	66	"	cu cb	8	"
Mid.	2	0	51.8	S. S. E. ½ E.	"	1			29.95	72	71	69	65	"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Wednesday June 1st, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences, and ends at 4 A.M.

Generally cloudy, hazy, about horizon. Clouds cumulus. Steering last hour. Sol. Calm. Distilling.

E. H. Townsend
Ensign U. S. N.

From 4 to 8 A.M.

Cloudy, mixed & hazy. Calms & light variable airs. Distilling.

C. D. Galloway
Asst. U. S. N.

From 8 A.M. to Meridian

Misty pleasant weather. Light airs from S. & W. & Calms. Made preparation for sea. Spread fires at 9 A.M. At 10 hove short & at 10:30 called all hands up anchor & got underway. At 11.00 took departure Wada Misaki bearing N.W. by W. ½ W. distant ½ mile, P.L. 1. at 10:45 put over patent log reading 3 m. Received M. F. Jaeger, Sea. & C. & W. H. Fitzgerald, Lds. from Hospital. At end of watch standing down Izumi Nada. Tomanga Sima in sight ahead.

D. L. Howard
Asst. U. S. N.

From Meridian to 4 P.M.

Bright & hazy with cirrus clouds. Warm. Calms first part with light breeze from S.W. afterwards. Smooth sea with heavy tide rips at times. Steaming thro' out of Osaka Gulf, courses from S.W. to South, changing frequently. At 2.50 Tomanga Sima Lt bore abeam. Made preparation for small arms target practice. At 3.30 stopped and anchored with a Kedge & hawse. Hauled in P.L. reading 31.3. Fit two small arms target at 4 c. Under steam, alone. At anchor at end of watch.

H. Townsend
Ensign U. S. N.

From 4 to 6 P.M.

Generally cloudy & hazy. Light airs from N.W. First part, Second, Navigators & Powder Divisions had small arms target practice.

W. B. Haggett
Ensign U. S. N.

From 6 to 8 P.M.

Partially cloudy. Light variable airs. Continued small arms target practice until sundown, when proceeded to pick up target. Spread fires & got underway at 7.40. Expended in Ordnance Dept. four pounds Gal 40 Cartridges & 1000 Cal 38 Cartridges.

A. F. Beyer
Ensign U. S. N.

From 8 P.M. to Midnight

Fair & calm. Light airs from S. Sea smooth. At 8.15 steered course S. ½ W. P.L. 31.3. At 11.15 changed course to S. S. E. ½ E. P.L. 51.8. Went to General Quarters at 11.28. Times as follows: 1st div. ready 1st fire 6.50, 2d 10, No 2 gun 1st fire 6.35, 2d 8.30, No 2 gun 1st fire 6.25, 2d 9.20, 3d div. ready 1st fire 6.50, 2d 6.50, Nav div 6.40, Powd div 4.40, Eng div 4.10, Marines 9.40. Expended in Ordnance Dept. 1-6 lb charge & 1 Set of Closing Primers for 6 Pdr, 1-3 lb Charge & 1 Quick Friction Primer, 2-10 lbs charges & 5 Pdr Primers for 9" S.B.

C. D. Galloway
Asst. U. S. N.

Examined and found to be correct.

A. T. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	7	9	65.5	S. 9 E. ½ E.	N. E.	1			29.96	72	71	70	72	b.c.w.	cir-cumr	6	S
2	7	7	73.2	"	"	1			29.94	72	72	70	72	"	"	6	"
3	7	6	80.8	"	"	1			29.98	72	72	70	72	"	"	6	"
4	7	7	88.2	"	"	2			29.98	72	72	69	72	"	"	6	"
5	7	7	95.9	E. by E. ¼ E.	N. by E.	3			30.00	72	72	66	72	"	"	7	S. & S.
6	6	8	102.	E. ¾ N.	"	3			30.02	72	72	66	72	"	"	7	"
7	8	1	104.1	E. ½ S.	"	3			30.06	72	72	68	73	"	"	8	"
8	7	6	111.8	E. by S.	N. by W.	2			30.04	74	73	68	73	"	"	9	"
9	5	9	117.5	E. N. E.	N. E.	2			30.09	76	72	69	68	b.c.	cir-cir	6	"
10	4		121.5	"	"	2			30.10	76	73	69	68	"	"	6	"
11				Target Practice	S. E.	2			30.10	76	73	69	68	"	"	5	"
Noon.			121.5		"	2			30.09	76	74	69	68	"	"	4	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ N 33.30. "
- Longitude by chronometer from Forenoon Observations of ⊙ E 136.11. "

07.1034

Position at 8 a. m.
- Latitude by D R N 33.25. "
- Longitude by Chro do do do E 135.55 "

Position at 8 P. M.
- Latitude by D R. N 33.55 "
- Longitude by Chro P.M. do do E 134.13. "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at 40° " E. N. E. W 5. .25. "

Water expended during the preceding 24 hours, 380 gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2120 "

Coal consumed during the preceding 24 hours, 4 tons 110 lbs.

Coal remaining on hand at Noon, 53 " 1991 "

P. M.																	
1	3	2	34.4	E. N. E.	E. by E.	2			30.09	76	74	68	70	b.c.	cir cumm	8	S
2	7	9	42.6	"	S. E. by E.	3			30.07	72	72	70	68	"	cir-cir	6	"
3	7	9	50.5	"	"	3			30.06	72	72	70	68	"	"	5	"
4	7	9	58.4	"	"	3			30.05	72	72	70	67	"	"	6	"
5	7	4	65.8	"	East	2			30.06	73	71	68	71	"	cir cumm	5	"
6	7	9	73.7	"	"	2			30.04	73	71	68	71	"	"	5	"
7	8	3	82.0	"	"	2			30.08	73	72	69	71	"	"	5	"
8	8	1	90.1	"	N. E.	2			30.06	73	72	69	71	"	"	6	"
9	8	2	98.3	"	N. W. by N.	2-3			30.08	76	71	68	72	b.c.w.	cum-cir	4	"
10	9	2	107.5	"	"	2-3			30.09	76	71	68	72	"	"	5	"
11	10	0	117.5	"	N. N. W.	4			30.10	73	71	68	71	"	"	6	"
Mid.	10	6	28.0	"	"	4-5			30.08	72	70	68	68	"	"	5	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday June 2d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Clear pleasant weather. Hazy over the land. Light airs & breeze from N. E. Moor at 2:10. At 3:20 set fore & aft sail. Sea water temperature 72 degrees between midnight & 1:00. At end of watch standing down Kii Channel under steam & fore & aft sail on course S. S. E. ½ E. Light swell from S. & W.

W. L. Waring
Lieut U. S. N.

From 4 to 8 A. M.

Foggy with cirro cumulo clouds. Gentle breeze from N. by E. till last hour, when breeze came out light from N. by W. Smooth Sea. Ship rolling easily to long ground swell. At 4:30 sighted high land between bearings E. by N. & N. by E. Changed course to E. by N. ¼ E. P. L. 9.6. At 5:00 changed to E. ¾ N. P. L. 10.0. At 6:30 to E. ½ S. P. L. 10.½. At 6:35 took in fore & aft sail. At 6:41 sighted Diamond Head Light House bearing (true) E. by N. Changed course to E. by S. P. L. 110.4. At 7:30 sighted Koko Head Light House bearing N. by E. Changed course to E. by N. ½ E. P. L. 116.4. At end of watch under steam alone on course E. by N. ½ E. High land all along on port hand. Diamond Head Light House bearing (Mag) W. by N. Koko Head Light House N. W. ¾ N.

H. C. Poundstone
Ensign U. S. N.

From 8 A. M. to Meridian

Partly clear hazy. Light breeze from N. E. & S. E. At 8:13 changed course to E. by N. P. L. 116. At 9:20 went to quarters for target practice. Steaming about target remainder of watch. Expended 6-6.0 Parshell, 6-6 lb Charges, 6 Dt Dt Bursting Primers, 24-9" Shell, 24-10 lb Charges, 24 Percussion Primers, 6-8" Shell (Butler), 6-3¼ lb Charges, 4 Quick Friction Primers, 5-3" Shell, 5-12 oz Charges, 5-8 oz Shell charges, 5 Base Fuzes. At end of watch making preparations to fire an exercise torpedo. Lost overboard one (1) 8" Shell Head.

W. B. Haggott
Ensign U. S. N.

From Meridian to 4 P. M.

Clear & pleasant. Light to gentle breeze from E. & S. & S. E. At 12:15 exploded an exercise shell torpedo. At 12:35 went ahead on course E. by N. P. L. 3.15. At 1:10 set fore & aft sail and foresail. At 1:55 hoisted sail to dry. Expended in Ord dept. one exercise torpedo one shuttle one detonator & dry Gun Cotton discs.

C. A. F. Leyerle
Ensign U. S. N.

From 4 to 6 P. M.

Cloudy & mild. Light cir & cir cumulo clouds. Light airs from S. & E. & Sea smooth. Gentle swell. At 5:00 furled square sails

C. P. Galloway
Asst Surg U. S. N.

From 6 to 8 P. M.

Hazy pleasant weather. Light breezes from East. At 6:10 moored at quarters. At sunset sighted high land to N. & W. Nearest land bearing N. by W. ½ W. Under steam on course E. by N.

W. T. Wells
Lieut U. S. N.

From 8 P. M. to Midnight

Hazy with cumulo clouds. Bright moonlight. Light breeze from N. W. by N. 1st hour with moderate to stiff breeze from N. N. W. a plenty of squalls. Smooth sea first part with moderate N. N. W. sea latter part. Ship gruesomely easy. At 8:00 went to fire quarters, 1st division ready in 1m 50s. At 8:26 set fore & aft sail, at 8:28 foresail & topsails at 9:40, at 11:40 took in flying jib. At end of watch on course E. by N. under steam & plain sail to topsail.

H. C. Poundstone
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

At Sea making passage to Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1	10	9	38.9	E N E	N N W	4-6			30.04	41	69	64	41	b.cgf.	cirrus	5	M
2	8	1	44.0	"	North	4-5			30.06	41	70	66	41	"	"	3	"
3	6	3	53.3	"	East	3			30.04	41	70	64	41	b.cd.	cir-str	8	"
4	5	4	59.0	"		3			30.08	41	70	64	41	"	cir-cum	6	"
5	6	8	65.8	"	E N E	4			30.14	41	70	65	41	"	"	2	"
6	6	6	71.4			4			30.10	41	70	65	40	b.cgf.	"	3	"
7	5	9	76.3	N. E. 3/4 E.	"	4			30.15	41	69	65	69	"	"	3	"
8	5	2	81.5	E. by N.	"	3-4			30.16	41	69	64	68	b.cum	"	3	"
	2	4	84.8	E. 1/2 N.													
	1	6	86.3														
9	3	2	88.5	N. E. 1/4 E.	N E	3-4			30.14	41	70	65	69	b.c.	"	4	"
10	4	2	99.5		N N E	3-4			30.18	41	69	65	49	"	"	8	"
	4	2	101.4	N. E. 3/4 E.													
11	4	2	5.9	N. E. by E. 1/4 E.	"	3-4			30.18	40	69	65	41	"	"	8	"
	3	8	9.4														
Noon.	5	0	14.4	N. E. 1/2 E.	"	3			30.12	42	69	64	69	"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by bearings Blake Island N. W. by W. 3/8 W. — N 34° 55′ "
- Longitude by bearings Observation Head Vries Id S. W. 3/8 S. — E 139° 28′ "
- Latitude by observations of ⊙ — ° ′ "
- Longitude by chronometer from Forenoon Observations of ⊙ — ° ′ "

Dy. 1034

Position at 8 a. m.
- Latitude by bearings as follows. — N 34° 33′ "
- Longitude by bearing Rock Id. S. E. by E. 1/2 E. / Noon Lake N. W. 1/8 W. — E 138° 54′ 30″

Position at 8 P. M.
- Latitude by — ° ′ "
- Longitude by — ° ′ "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head — ° ′ "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " — ° ′ "

Variation of the Compass by Azimuth ⊙ observed at " — ° ′ "

Variation of the Compass by Azimuth ⊙ observed at " — ° ′ "

Water expended during the preceding 24 hours, 380 gallons.

Water during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 12/40 "

Coal consumed during the preceding 24 hours, 11 tons 1320 lbs.

Coal remaining on hand at Noon, 42 " 641 "

Dy. 1012 N 35° 11′ / 139° 35′

	P. M.											
	1	7	8	24.0	N. E. 1/2 E. N. E. by N.	East	3	30.18	41	43	64	69	b.cum	cir-cum	8	S
	2	9	2	33.2	" N. by E.	N. E. by N.	2-3	30.15	41	64	64	68	69	"	"	8	"
	3	2	0	41.4	N. N. E.	N N W.	2-3	30.13	41	64	64	69	69	"	"	4	"
		3	0													6	"
	4	Standing in for anchorage.				S W.	2	30.12	41	64	64	69	"	"		
	5						2	30.12	41	64	64	69	b.c.	"	8	"
	6	Ship Head					2.	30.12	41	64	63	64	"	"	8	"
	7				S W.	S by W.	2	30.14	41	64	62	64	"	"	8	"
	8				Speak	S S E.	2	30.14	41	64	61	64	"	"	8	"
	9				S by W.		1	30.16	41	64	61	64	"	"	8	"
	10				S S E.		1	30.15	41	64	60	64	"	"	6	"
	11				"	South	1	30.15	41	64	60	64	"	"	3	"
	Mid.				S by E.	"	1	30.14	41	69	66		"	"	2	"

under the command of Commander T. F. Jewell, U. S. Navy,

Friday June 3d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.

Generally clear & pleasant. Squally first part. Fresh, decreasing to light breeze from N. N. W. & light, then, gentle breeze from East. At 12:10 took in spanker. At 1. sighted Oma Saki Lt House from aloft. At 1:30 set spanker. At 1:40 took in all sail. At 2:25 set fore & aft sail except flying jib. At 2:40 took in fore & aft sail. At 2:20 started fires in boilers 2 & 4. At end of watch under steam, almr. at 4. Light House bore (p.s.) N. by W. Moderate decreasing sea from East.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.

Cloudy first three hours then clear & pleasant. Moderate breeze from E. N. E. at 6:20 sighted Rock Island Light bearing E. N. E. at 6:20 sent down light yards. At 6. changed course to N. E. 3/4 E. D. L. 7 1/2 ; at 6:33 to E. N. E. 1/2 E. D. L. 4 6/10, at 7:20 to E. by N. D. L. 82.0 & at 7:48 E. 1/2 N. D. L. 84.8.

A. T. Beardsley
Ensign U. S. N.

From 8 A. M. to Meridian.

Clear pleasant weather. Gentle to moderate breeze from N. E. At 8:20 Rock Island Light House bore N. W. changed course to N. E. 1/4 E. At 9:30 mustered at quarters & inspected boys. At 10. changed course to N. E. 3/4 E. & set fore & aft sail : at 10:30 changed to N. E. by E. 1/4 E. & at 11:30 N. W. point Ulies Id bearing S. S. E. 3/4 E. changed to N. E. 1/2 E. & took in sail. At 10:06 set clock ahead 16 minutes. At 12 m sighted Sagami Misaki Light House bearing N. E. 1/4 N. At end of watch standing up for entrance to Yedo Bay on course N. E. 1/2 E.

Lieut U. S. N.

From Meridian to 4 P. M.

Partly clear with cirro cumulous clouds. Warm. Bright & hazy. Light to gentle breeze variable 1st part, from N. N. W. latter part. Steaming in for & into Yedo Bay. Changing courses frequently between N. E. 1/2 E. & N. N. W. At 3 p.m. crossed top gallant yards. Unbent main topsail & fore topmast staysail. Cleaning ship up for port. At 3:20 called "All hands bring ship to anchor". Steamed in for anchorage in Yedo Bay in charge of Pilot Officer.

H. Thompstone
Ensign U. S. N.

From 4 to 8 P. M.

Clear warm & pleasant. Light breeze from S. W. & S. by W. At 4. Signalled Int 12 11. Flag ship answered 9 4. At 4:12 let go port anchor & at 4:40 hove it up. At 5:05 let go starboard anchor in 6 fms water. At 5:12 let go port anchor. Put on mooring swivel. Bent chain. Received boarding visit from "Bourcay", the French admiral & H. B. M. S. "Leander" with offers of usual courtesies. Commanding Officer paid official visit to the Commander-in-Chief. At 6:30 started fires in boilers 1 & 3 for distilling. Hauled fires from boilers 2. 4. 6. 8. 3 w.f. Bearing at anchorage Pole in English Hatoba (p.s.) S. W. 1/2 W. distant 1 1/2 miles. Draft of ship fwd 16' aft 15' 6"

W. B. Hoggatt
Ensign U. S. N.

From 8 P. M. to Midnight.

Fair decreasing to cloudy weather. Light airs from E. S. E. & S. Hauled distilling at 10. 30.

A. T. Beardsley
Ensign U. S. N.

Examined and found to be correct.

A. T. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				South	South	1-2			30.11	42	70	64		b.c.f.	cumu	3	d
2				"	"	1-2			30.11	42	70	64		"	"	3	"
3				S.W.	S.W.	1			30.11	41	69	64		"	"	2	"
4				W.N.W.	W.N.W.	1			30.10	40	69	64		"	"	4	"
5				N.W.	West	1			30.11	69	64	65		b.c.f.	cumulus	0	"
6				N.W. by N.	"	1			30.11	69	68	66		"	"	0	"
7				N.W. by W.	"	1			30.12	69	68	66		"	"	0	"
8				N.W.	Calm	0			30.13	40	68	66		b.c.f.	cir.cumu.	3	"
9				S.E.	South	1			30.14	41	70	68		fair	"	2	"
10				South	S.W.	2			30.13	44	72	68		"	"	2	"
11				"	"	2			30.11	45	73	68		"	"	2	"
Noon.				"	S. by W.	2			30.11	45	74	68		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° "

Water expended during the preceding 24 hours, 800 gallons.

Water Distilled during the preceding 24 hours, 960 "

Water remaining on hand fit for use at Noon, 1900 "

Coal consumed during the preceding 24 hours, 2 tons 880 lbs.

Coal remaining on hand at Noon, 38 "2031"

P. M.											
1	S. by E.	S.S.W.	2	30.08	46	44	69	b.cu.	cir.cum.	4	d
2	South	S. by W.	2	30.06	46	44	69	"	"	4	"
3	"	"	3	30.06	46	44	69	"	"	6	"
4	S. by E.	"	2-3	30.02	46	44	69	"	"	4	"
5	"	"	2	30.02	45	44	69	"	"	5	"
6	S.W.	S.S.W.	2	30.03	45	44	69	"	"	5	"
7	"	"	2	30.03	45	44	69	"	"	4	"
8	S.S.W.	"	1-2	30.04	45	43	69	"	"	5	"
9	"	"	1	30.00	43	41	68	cu.	"	0	"
10	S. by W.	"	1	29.99	42	41	68	"	"	0	"
11	South	"	2	29.99	42	41	68	"	"	0	"
Mid.	S. by W.	"	2	29.98	42	41	68	"	"		

under the command of Commander T. F. Jewett, U. S. Navy,
Saturday June 4th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends 4 A. M.
Fair weather. Slightly foggy. Light airs to light breezes from South & S.W. Distilling. Moon set at 2. A.

T. Toombs
Ensign U. S. N.

From 4 to 8 A. M.
Overcast & cloudy. Light airs from West. Calm last hour. Distilling.

W. B. Haggett
Ensign U. S. N.

From 8. A. M. to Meridian.
Fair pleasant weather. Light breeze from S.W. & W. Called bedding. The Commanding Officers of the Flagship Brooklyn, U. S. S. Omaha, Marcy and "Palos" paid official visits to the ship & were received with usual courtesies. At 10.40 the Boundy Officer left the ship to pay official visits. Distilling.

T. Toombs
Ensign U. S. N.

From Meridian to 4 P. M.
Hazy weather. Light breezes from S & S.W. Light to gentle breezes from S by W. At 1. pipes down, cleared bedding. Flagship sign called 22-40. Answered. French ironclad "Primaquet" came in & anchored. Certain officer to board her with usual offers of civilities. Distilling.

D. T. Waeing
Lieut U. S. N.

From 4 to 8 P. M.
Fair weather. Light breeze from S.S.W. Received an official visit from Boundy Officer of H. M. S. "Leander." Distilling.

T. Toombs
Ensign U. S. N.

From 8 P. M. to Midnight
Overcast cloudy weather. Light airs & breeze from S.S.W. Distilling.

D. T. Waeing
Lieut U. S. N.

Examined and found to be correct.

A. P. Markham Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.				South	South	3			29.93	74	70	68		O.C.	cumuli	0	S
1				"	"	2-3			29.96	74	70	67		"	"	0	"
2				"	"	2-3			29.93	74	70	67		"	"	0	"
3				"	"	2-3			29.93	74	70	67		"	"	0	"
4				"	"	2			29.92	74	70	67		O.C.	"	0	"
5				"	"	2			29.90	74	70	67		"	"	0	"
6				"	"	2			29.91	74	69	67		"	"	0	"
7				S by E.	"	2			29.91	74	69	67		"	"	0	"
8				S by W.	S.E.	2			29.91	70	69	67		O.C.	cumuli	0	"
9				E S E.	"	3			29.89	69	68	67		"	"	0	"
10				"	"	3			29.86	69	68	66		"	"	0	"
11				S.E.	"	3			29.84	69	68	66		"	"	0	"
Noon.																	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: { Latitude by D. R. ° ' "
Longitude by D. R. ° ' "
Latitude by observations of ⊙ ° ' "
Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. { Latitude by ° ' "
Longitude by ° ' "

Position at 8 P. M. { Latitude by ° ' "
Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 4/30 gallons.

Water Distilled during the preceding 24 hours, 1230 "

Water remaining on hand fit for use at Noon, 22/01 "

Coal consumed during the preceding 24 hours, 2 tons 990 lbs.

Coal remaining on hand at Noon, 36 " 12/01 "

P. M.										
1	S by E.	S E	4	29.79	70	68	67	O.C.	cumuli	0	S
2	S S E.	S S E.	4	29.76	68	67	65	"	"	0	"
3	East		4	29.70	69	66	65	"	"	0	"
4	N. E by E.	N. E.	4	29.66	66	65	64	"	"	0	"
5	N. E.		4	29.56	65	64	63	"	"	0	"
6	N. by W.	N. N W.	4	29.56 29.57	65	64	63	"	cumuli	0	"
7	N W by N.	N W.	4	29.59 29.60	65	64	63	"	"	0	"
8			4	29.61	65	64	63	O.C.	"	0	"
9	N W.	N N W.	2	29.64	66	64	63	O.C.	"	0	S
10	N W by W.	"	2	29.65	65	64	64	"	"	0	"
11		"	2	29.69	65	63	62	"	"	0	"
Mid.	N N W.	"	2	29.69	65	63	63	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday June 5th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Overcast & cloudy. Clouds cum & went. Light to gentle breez from South. Barometer falling rapidly. Distilling.

H. C. Poundstone
Ensign U. S. N.

From 4 to 8 A.M.
Overcast & cloudy with drizzling rain. Light brez from S.E. Distilling.

F. Fooms,
Ensign U. S. N.

From 8 A.M. to Meridian
Overcast rainy weather. Light to gentle breezs from S.E.

L. B. T. Waeing
Lieut U. S. N.

From Meridian to 4 P.M.
Overcast & cloudy with continual heavy rain. Thick disagreeable weather. Nimbus clouds. Moderate breez from S.E. 1st hour, shifting to S.S.E & coming out from N.E. last hour. Moderate sea & swell. Ship easy. Barometer falling rapidly.

H. C. Poundstone.
Ensign U. S. N.

From 4 to 8 P.M.
Overcast rainy weather first three hours, clearing last hour with rising barometer.

L. B. T. Waeing
Lieut U. S. N.

From 8 P.M. to Midnight
Cloudy with frequent light drizzling rain. Clouds cum & went. Light breez from N. N. W. & tide.

H. C. Poundstone.
Ensign U. S. N.

Examined and found to be correct.

A. T. Mahan
Lieut U.S. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. by E.	N. N. W.	2			29.64	66	66	64		o.c.	cumu	0	S
2					"	2			29.64	64	66	64		"	"	0	"
3				N. N. W.	"	2			29.64	66	66	64		o.c.	cir cumu	3	"
4				N. W. by W.	"	1			29.64	66	66	63		"	"	3	"
5				N. W.	"	1			29.64	66	66	64		"	"	4	"
6				N. N. W.	North	1			29.70	66	66	68		"	"	5	"
7				N. by W.	N. N. E.	1			29.71	64	66	63		"	"	3	"
8					"	1			29.73	64	66	63		"	cumu	2	"
9				N. W.		1			29.74	64	64	63		"	"	2	"
10				North	E. N. E.	1			29.74	69	68	64		"	"	2	"
11				S. E.	E. by S.	1			29.75	70	68	65		"	"	9	"
Noon.				S. E. by S.	S. E. by S.	1			29.73	70	68	65		"	"	9	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 450 gallons.

Water Distilled during the preceding 24 hours, 350 "

Water remaining on hand fit for use at Noon, 2650 "

Coal consumed during the preceding 24 hours, tons 15 lbs. 20

Coal remaining on hand at Noon, 96 " 131 "

P. M.																	
1				S. S. E.	S. S. E.	2			29.71	71	70	66		b.c.	cir cumu	3	S
2				S. E. by S.	"	2			29.69	71	73	66		"	"	3	"
3				S. E.	"	2			29.68	72	72	64		"	"	3	"
4				S. S. W.	S. by W.	3			29.69	72	72	66		"	"	1	"
5				S. W. by W.	"	3			29.69	72	72	64		b.cu.	cum str	2	"
6				S. by W.	"	2			29.69	72	72	68		"	"	2	"
7				S. W.	"	2			29.69	71	70	68		"	"	3	"
8				S. W. by W.	"	2			29.66	71	70	68		"	"	5	"
9				S. W.	S. W.	2			29.68	71	70	68		b.c.z.	cir cumu	4	"
10						2			29.70	70	68	64		"	"	5	"
11				N. W.	N. W.	1-2			29.73	70	68	64		"	cumu	5	"
Mid.				W. N. W.	W. N. W.	1			29.74	70	68	64		"	"	4	"

under the command of Commander T. F. Jewell, U. S. Navy,

Monday June 6th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 A. M.

Overcast & cloudy first part: clearing last part: Light airs & breezes from N. N. W.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.

Cloudy pleasant weather. Light airs from N. N. W. Batt. & N. N. E. at 7: made Sat. 6.55. Flagship answered 6.57. at 7.30 Flagship made Genral signal 3350. Answered. at 7.40 Flagship made Genral signal 6.56. Answered. Loosed sail.

B. H. Waring
Lieut U. S. N.

From 8. A. M. to Meridian

Hazy with cirrus & cumuli clouds. Bright & warm. Light variable airs. No tide. Quarterly Board of Survey condemned 2 lbs of Chemethical wax ordered to be thrown overboard. At 9.30 count to Genral Quarters. Ready for action in 2m 55s. Tested Chest Com & Magazine Flood Cocks. Dry G. & Primers & Electrical apparatus. Received an official visit from Captain of French Ironclad "Turene". Board of Survey in Navigation & Steam Engineering met on board. Articles surveyed as follows in Navigation. One (1) #3 signal Flag belonging to set #2. One (1) #4 american Ensign. Invoice Price #14.38. One (1) #5 american Ensign. Invoice Price #9.50 & Gore of Chart Board. In Steam Engineering Smoke Pipe to Main boiler, main Steam pipe, bottom blow pipe, cocks to combination gauges on boilers, H. P. frame of steam cutter engine.

A. Commerford
Ensign U. S. N.

From Meridian to 4 P. M.

Generally overcast but pleasant. Light to gentle breeze from S. S. E. & S. S. W. Quarterly Board of Survey condemned one (1) bottle of Sockets broken. & by order of Executive Officer threw them overboard. Joseph A. Ellis 2. C. S. a. August Bretty 2. C. S. a. Joseph O'Neil Lds. Peter Metzger Lds & Louis Holt Ord. were transferred to this vessel from U. S. S. "Brooklyn". Commanding Officer of the French man-of-war "Primaguet" returned call of the Executive Officer. Transferred M. Fitzgerald Lds. to U. S. Naval Hospital at Yokohama.

W. B. Hoggatt
Ensign U. S. N.

From 4 to 8. P. M.

Hazy with cirro str clouds. Bright & pleasant. Light breeze from S. S. W. Moon rose over cloud bank at 7 4/5.

A. Commerford
Ensign U. S. N.

From 8. P. M. to Midnight

Partly clear, hazy. Light airs & breeze from S. W. to N. W.

W. B. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams.

Lieut & Navigator.

LOG of the UNITED STATES Steamer "Osseo", 3d Rate,

Mooring in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. N. W	North	2			29.74	68	64	64		b.cu.	cu-cu	3	S
2				"	"	2			29.72	68	64	66		o.cu.	"	0	"
3				N. W.	"	2			29.73	68	64	66		"	"	0	"
4				"	N. N. W.	2			29.72	68	64	66		o.cr.	cu-ni-st	0	"
5				N. N. W.	"	2			29.72	64	66	65		"	"	0	"
6				"	"	2			29.75	64	66	65		o.cu.	"	0	"
7				"	"	2			29.76	64	65	64		"	"	0	"
8				"	"	2			29.76	64	66	64		"	"	0	"
9				"	"	12			29.76	64	66	64		o.cu.	"	0	"
10				North	North	1-2			29.76	69	64	64		o.c.	"	0	"
11				N. E.	N. N. E.	1			29.76	69	64	65		"	"	0	"
Noon.				N. E by E.	"	2			29.74	69	68	65		o.cu.	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 431 gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2220 "

Coal consumed during the preceding 24 hours, tons 13 lbs.

Coal remaining on hand at Noon, 35 " 1041 "

P. M.																	
1				N. N. E.	N. E.	2			29.49	70	64	65		o.c.	cu-ni-st	0	S
2				N. E.	"	2			29.80	70	69	66		o.c.	cu-cu	4	"
3				East	E by S.	2			29.80	70	69	66		"	"	3	"
4				"	"	2			29.78	70	69	66		"	"	5	"
5				E by N.	East	1			29.76	70	69	66		o.c.	cu-ni-st	0	"
6				E by S.	S by E.	2			29.76	70	69	66		o.cu.	"	0	"
7				S by E.	S by E.	2			29.76	70	69	66		o.cl.	"	0	"
8				West	"	1			29.79	69	69	64		o.cr.	"	0	"
9				N. E by N.	N. N. E.	1			29.82	68	64	65		"	ni-st	0	"
10				N. E by E.	E. N. E.	2			29.84	68	66	64		"	"	0	"
11				E. N. E.	East	2			29.84	68	66	64		"	cu-ni-st	0	"
Mid.				"	"	1			29.84	68	64	65		"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday June 4th, 1884.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and ended A. M.
Overcast and cloudy. Light breeze from South & W. N. W. Rainy last hour.

W. F. Fullam
Ensign U. S. N.

From 4 to 8 A. M.
Overcast with cumulus & nimbus clouds. Rainy first part watch & drizzling afterwards. Light breeze from N. N. W. No tide. At 5:20, Flagship Trenton made Signal 3 & 50. Sent boat sails.

H. Pomeroy
Ensign U. S. N.

From 8 A. M. to Meridian
Overcast cloudy drizzling rain first hour: raining shower last hour. Light airs & breeze from N. N. W. to N. N. E. At 9:30 went to quarters for inspection afterwards exercised at company & artillery drills. The Fleet Surgeon paid an official visit to the Commander of the Trenton.

W. B. Haggett
Ensign U. S. N.

From Meridian to 4 P. M.
Generally cloudy. Light breeze from N. E. & E. at 9.

W. F. Fullam
Ensign U. S. N.

From 4 to 8 P. M.
Overcast cloudy misty drizzling & light rain. Light airs & breeze from East & S. S. E. At 6:15 Trenton saluted and at quarters. Paymaster received 5000 fr. on U. S. S. "Omaha" fired a salute of 13 guns in honor of French Admiral-in-Chief. The Fleet Surgeon of French gunboat "Vipere" paid an official visit to the ship. Sailed division at 7.

W. B. Haggett
Ensign U. S. N.

From 8 P. M. to Midnight
Cloudy & rainy. Light breeze from N. N. E. to East. Divisions at 7.

W. F. Fullam
Ensign U. S. N.

Examined and found to be correct.

S. V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				North	North	1-2			29.85	68	64	65		b.c.	cum-nim	3	
2				East		1-2			29.86	68	64	65		"	"	5	"
3				E. by E.	N. E.	1			29.87	68	64	65		"	"	3	"
4				E. N. E.		1			29.87	68	66	65		"	"	3	"
5					North	1			29.87	71	65	64		"	"	1	"
6				N. E. by N.	"	1			29.88	71	65	64		"	"	5	"
7						1			29.89	72	66	64		"	"	7	"
8				E. N. E.	E. N. E.	1			29.89	72	66	64		"	"	5	"
9				S. E. by S.	S. S. E.	1			29.89	68	64	65		"	cir-cumm	5	"
10				South		1			29.90	69	64	65		"	"	5	"
11				S. by E.	S. E.	2			29.91	69	64	65		"	"	5	"
Noon.				S. E.	S. S. E.	2			29.91	70	68	65		"	"	5	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water distilled during the preceding 24 hours, 800 "

Water remaining on hand fit for use at Noon, 22000 "

Coal consumed during the preceding 24 hours, tons 1160 lbs.

Coal remaining on hand at Noon, 32 " 1151 "

P. M.													
1			S. E. by S.	S. E. by S.	2	29.91	70	68	65	b.c.	cir-cumm	5	S
2			S. E.		2	29.92	70	69	65	"	"	4	"
3			S. S. W.	South	1-2	29.92	72	70	64	"	"	4	"
4			S. by E.	"	1	29.90	73	72	68	"	"	4	"
5			S. S. E.	"	1	29.90	74	72	68	"	"	6	"
6			S. by E.	"	2	29.90	73	71	64	"	"	4	"
7			"	"	2	29.90	73	71	64	"	"	4	"
8			"	"	2	29.91	73	69	66	"	"	2	"
9			South	"	2	29.90	71	69	66	"	"	2	"
10			S. E. by S.	"	1	29.91	71	69	66	"	"	2	"
11			E. by S.	"	3	29.91	70	68	66	o.c.	cum-nim	0	"
Mid.			"	"	3	29.91	69	68	66	"	"	0	"

under the command of Commander T. F. Drowne, U. S. Navy,

Wednesday June 8th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Unties A M.

Fair to cloudy weather. Wind. Light airs to light breeze from North and N. E. Distilling.

F. J. Forms
Ensign U. S. N.

From 4 to 8 A M.

Clearing, pleasant weather. Light airs from North and E. N. E. Loosed sail to be bowline at 5.20. Received 133 3/4 lbs fresh beef and vegetables and 107 lbs fresh bread.

W. B. Hoggatt
Ensign U. S. N.

From 8 A. M. to Meridian

Weather pleasant, partially cloudy. Light breeze from S. S. E. to E. S. E. At 9.20 Flagship made Preparatory Signal 266 3. At 9.32 made Signal 266 3. Armed and Equipped, all boats except Gig and Steam cutter for distant Service and sent them to exercise the fleet tactics with boats from the other vessels.

A. F. Fechteler
Ensign U. S. N.

From Meridian to 4 P M.

Clear and pleasant weather. Light airs to light breeze from S. and E. At 1.00 furled sail. The Commander-in-Chief called officials and was received with the usual honors.

F. J. Forms,
Ensign U. S. N.

From 4 to 8 P M.

Partially cloudy. Light breeze from South.

A. F. Fechteler
Ensign U. S. N.

From 8 P M. to Midnight

Cloudy. Light airs to gentle breeze from South.

F. J. Forms
Ensign U. S. N.

Examined and found to be correct.

A. W. Adams. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				E by E.	E by E.	3			29.90	69	64	66		o.c.	cumulus	0	1
2				"	"	3			29.89	68	64	66		"	"	0	"
3				E by S.	"	2-3			29.89	68	64	66		"	"	0	"
4				E by E.	"	2-3			29.87	68	64	66		"	"	0	"
5				East	East	2-3			29.87	68	64	66		o.c.	"	0	"
6				E by E.	"	2-3			29.88	68	64	66		"	"	0	"
7				E by N.	"	2-3			29.86	69	64	66		"	"	0	"
8				E by E.	E.	2			29.85	69	64	66		"	"	0	"
9				South	South	2			29.82	68	64	66		"	cumulus	0	"
10				S by W.	"	2			29.80	69	64	66		"	"	0	"
11				W by S.	S W.	2			29.80	69	64	66		"	"	0	"
Noon.				W by W.	S by E.	1			29.79	68	64	66		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 380 gallons.

Water Distilled during the preceding 24 hours, 389 "

Water remaining on hand fit for use at Noon, 24/01 "

Coal consumed during the preceding 24 hours, tons 2000 lbs.

Coal remaining on hand at Noon, 33 " 1391 "

P. M.																
1			N. N. W.	Salem	0			29.78	69	64	66	o.c.	cumulus	0		1
2			E by S.	"	0			29.76	69	64	66	"	"	0		"
3			S W. by S.	"	0			29.73	69	64	66	"	"	0		"
4			S E by S.	S E by S.	0-1			29.72	69	64	66	"	"	0		"
5			S E.		0-1			29.69	69	68	66	"	"	0		"
6				S by E.	1			29.66	69	64	66	"	"	0		"
7			East	East	1			29.61	68	64	66	"	"	0		"
8			N. E.	N. N. W.	1			29.61	69	68	64	"	"	0		"
9			N. N. W.	N. W.	1			29.61	69	64	66	o.c.	cumulus	0		"
10			N. W. by W.		1			29.61	68	64	66	"	"	0		"
11			N. by W.	N. N. W.	1			29.61	68	64	66	"	"	0		1
Mid.			N. W. by N.	"	1			29.59	64	67	66	"	"	0		1

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday June 9th, 18 84

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Cutter 4 A. M.
Cloudy & mild. Gentle to moderate breeze from E. S. E.

D. P. Galloway
Lieut U. S. N.

From 4 to 8 A. M.
Rainy. Light to gentle breeze from East. Received on board for crew 133 lbs fresh beef, 133 lbs vegetables & 70 lbs bread.

A. F. Beckwith
Ensign U. S. N.

From 8 A. M. to Meridian
S. Overcast & cloudy. Drizzling rain. Light airs to light breeze from S. at 9.30 inspected at quarters & found Wm. Smith, Sea., absent without leave.

F. J. Boomer
Ensign U. S. N.

From Meridian to 4 P. M.
Calm overcast, continuous rain. William Smith, Sea, returned on board, clean & sober 6 bells forenoon.

D. P. Galloway
Lieut U. S. N.

From 4 to 8 P. M.
Overcast & raining. Light airs from S. & E. Barometer falling rapidly. Sent liberty party on shore.

F. J. Boomer
Ensign U. S. N.

From 8 P. M. to Midnight
Overcast with light drizzling rains. Light airs from N. & N. E. & N. W. Barometer falling last hour.

D. P. Galloway
Lieut U. S. N.

Examined and found to be correct.

A. F. Beckwith Lieut & Navigator.

LOG of the UNITED STATES Steamer Oneida, 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. N. W.	N. N. W.	2			29.66	64	64	65		b.c.	cumu.	0	S
2				N. N. E.		2			29.66	64	66	65		b.c.	"	0	"
3				N. E.	N. E.	2			29.66	64	66	66		"	"	0	"
4				E. by E.	"	2			29.66	64	66	65		"	"	0	"
5				E. by N.	Calm	0			29.68	64	66	66		b.c.	cir-cumu	2	"
6				North	"	0			29.60	64	64	65		"	"	2	"
7				N. N. W.	"	0			29.60	68	64	65		"	"	3	"
8				N. by W.	North	0-1			29.60	68	64	66		"	cir-cum.	4	"
9				W. N. W.	West	1			29.62	69	64	66		"	"	5	"
10				S. by W.	S. by E.	1			29.63	40	68	64		"	"	5	"
11				S. E.	"	1			29.63	40	68	67		"	"	6	"
Noon.				"	S. E.	1			29.63	40	69	68		"	"	7	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 350 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2450 "

Coal consumed during the preceding 24 hours, tons 10 lbs.

Coal remaining on hand at Noon, 33 " 351 "

P. M.									
1	S. S. W.	S. S. W.	3	29.59	64	64	b.c.	cumu.	4 S
2	South	"	3	29.54	64	64	"	"	4 "
3	S. S. W.	"	3	29.54	64	66	"	"	4 "
4	S. W. by S.	"	3	29.54	64	65	"	"	3 "
5	"	"	3-2	29.52	65	66	"	cir-cum.	3 "
6	"	"	3	29.54	64	64	"	"	3 "
7	"	W. S. W.	2	29.54	64	66	"	"	4 "
8	S. W. by W.	S. W. by W.	2	29.52	64	66	"	"	5 "
9	S. W.	S. W.	2-3	29.62	64	66	"	"	4 "
10	"	"	3	29.63	64	66	"	"	4 "
11	W. by S.	"	2-3	29.63	64	66	"	"	4 "
Mid.	N. W.	N. W.	2	29.64	69	65	"	"	8 "

under the command of Commander F. F. Jewett, U. S. Navy,
Friday June 10th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends. A.M.
Overcast, drizzling rain first hour. Light breeze from N. N. W. & N. E.

B.T. Wallingford
Lieut U.S.N.

From 4 to 8 A.M.
Weather clearing up, Calm to light airs from North. Barometer rising. Cleaned bilges. At 7 hoisted sail to, & boloine.

F. Toomey
Ensign U.S.N.

From 8 A.M. to Meridian
Fair & mild. Light breeze from S.E. At 9.30 mustered at quarters. Absentees W. J. Dazey Asst, J. Doyle Ctr, J. O'Neil 2d Cl, F. J. Porter, 2 C.F., J. Halpine P.M. Exercised 1st Div. Single Sticks, 2d Rifles, 3d Machine Guns, Powd Stations. At 11 a.m. Flagship made signal "Hereafter Supper at 5 p.m." Contractors came on board for smokestack & parts of steam pipe, delivered same to Chief. Quarterly Board of Survey inspected & condemned one (1) can (old) of butter & returned in for ships use, as stock.

E.D. Galloway
Lieut U.S.N.

From Meridian to 4 P.M.
Cloudy pleasant weather. Gentle breezes from S.S.W. At 1. Flagship signalled 4.826. Furled sail. Received on board one hundred & fifty (150) Limes & Oats.

B.T. Wallingford
Lieut U.S.N.

From 4 to 8 P.M.
Clear & warm. Moderate breeze from S.S.W. Sent boarding officer to American ship "Mercury" bound to Honolulu from Hong Kong. Cargo of paving stone. At 6 a.m. mustered at quarters. Absentees W.J. Dazey, Asst, J. Doyle Ctr, J. O'Neil Ld, F. J. Porter 2 C.F. J. Halpine P.M. At 6.45 fire quarters 1st Stream 35 sec 2.50 sec 3.1.05 min 4.1.15 sec. Received in Nav. Dept two packages of charts from Flagship.

E.D. Galloway
Lieut U.S.N.

From 8 P.M. to Midnight
Clear & pleasant. Light to gentle breezes from S.W. & light breezes from N.W.

B.T. Wallingford
Lieut U.S.N.

Examined and found to be correct.

A.V. Wadhams. Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N. N. W.	N. N. W.	3			29.64	68	64	65		b. c.	cir-cst	8	9
2				N. W. by N.	"	2			29.58	68	66	64		"	"	8	"
3				N. N. W.	"	2			29.60	67	65	63		"	"	8	"
4				North	"	1			29.61	67	65	63		"	"	8	"
5				W. by W.	"	1			29.62	67	64	63		"	"	7	"
6				West	"	1			29.64	68	67	62		"	cir-cum.	6	"
7				W. N. W.	Calm	0			29.64	68	65	63		b. c.	"	5	"
8				W. by W.		0			29.65	69	66	64		"	"	5	"
9				South	S. by E.	1			29.65	70	68	64		b. c.	"	7	"
10				"	South	1			29.65	71	70	65		"	"	7	"
11				S. by E.	"	2			29.65	72	71	66		"	"	8	"
Noon.				S. E. by E.	"	3			29.65	72	71	66		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 280 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2129 "

Coal consumed during the preceding 24 hours, tons ~~400~~ lbs.

Coal remaining on hand at Noon, 32 " 2191 "

P. M.											
1	South.	South.	2	29.64	72	71	66	b. c.	cir cum	8	9
2	S. S. E.	"	2	29.63	73	72	68	"	"	7	"
3	"	"	2	29.60	74	72	69	"	"	7	"
4	S. by E.	"	2	29.60	74	72	69	"	"	8	"
5	S. S. W.	"	2	29.59	67	67	69	"	"	4	"
6	"	"	2	29.59	65	72	66	"	"	3	"
7	"	S. by W.	3	29.59	74	72	65	"	"	4	"
8	S. W. by S.	"	2	29.59	73	71	65	"	"	6	"
9	S. by W.	"	2	29.58	72	71	65	"	cum-cst	8	"
10	W. by S.	W. by W.	2	29.60	71	71	66	"	"	8	"
11	N. W. by N.	N. W.	3	29.62	70	70	64	"	"	8	"
Mid.	N. N. W.	"	3	29.62	69	69	63	"	"	8	"

under the command of Commander T. F. Jewett, U. S. Navy,
Saturday June 11th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and Until 4 A.M.

Bright moon & starlight wind light cir str clouds. Light airs to brze from N. N. W. & W. Hds hide.

A. Townsend
Ensign U. S. N.

From 4 to 8 A.M.

Clear until 6 pleasant. Calms & light airs from N. N. W. Received in Pay Dept 133 3/4 lbs fresh beef, 133 3/4 fresh vegetables & 10 lbs fresh bread. Chief Engineer J. W. Stivers left the ship on leave of absence for six days. At 7:30 Flagship made signal II Div II Squad pennant 33 numl. 38. Answered. At 8 Flagship signaled Army & Marines to wear white trowsers. Answd.

C. H. Galloway
Asst Surg U. S. N.

From 8 A.M. to Meridian

Clear pleasant weather. Light airs from S. S. E. to South. At 9.30 Flagship signalled 10 A.M. Aired bedding.

B. F. Waeming
Lieut U. S. N.

From Meridian to 4 P.M.

Generally clear with cir cumu clouds. Bright & warm. Light brze from South. At 1 o'c Flagship made general signal 2240. Pipe down and bedding. Placed Wm. Thompson (Comp't) under confine charge for being drunk on duty. Austrian corvette "Aurora" came in & moored.

A. Townsend
Ensign U. S. N.

From 4 to 8 P.M.

Clear & pleasant. Light breze from South to S. S. W. At 6:30 mustered at quarters. Absent without leave Jas O'Neil, Les Robt Doyle, C'ktr, J. F. Porter 2 F. W. Dazey, O. Tdr. By order of Mdg Officer placed L. F. Demmer Blksmith, under confine charge to await further action in his case.

B. F. Waeming
Lieut U. S. N.

From 8 P.M. to Midnight

Generally clear with cumu str clouds. Bright & starlight. Moon rose over cloud bank at 11:00. Light breze from S. S. W. to W. Set 1st part gentle N. W. breze afterwards. At 11:30 discovered a fire on shore. At 11:30 Flagship signalled land fire parties; sent 1st & 2d cutters with fire party. At 11:40, sent steam cutter at 11:55, to haul party off.

A. Townsend
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N.W. by N.	N.W.	2			29.63	69	68	65		b.c.	cir-cum	6	S
2					"	2			29.64	68	64	65		"	"	4	"
3				N.W.	"	2			29.64	68	64	65		"	"	4	"
4				N.W. by N.	"	2			29.64	68	64	65		"	"	6	"
5				N.N.W.	"	1			29.64	66	66	62		"	cir-str	8	"
6				North	"	1			29.66	66	64	61		"	"	8	"
7				"	"	1			29.66	64	65	62		"	"	8	"
8				"	"	1			29.68	69	64	64		"	cir-cum	6	"
9				N.E. by N.	"	1			29.70	71	69	65		b.c.m.	"	6	"
10				East	E. by E.	1			29.70	72	70	66		"	"	5	"
11				S.E. by E.	S.E.	1			29.71	72	71	65		"	"	5	"
Noon.				"	"	1			29.71	73	71	65		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 280 gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1890 "

Coal consumed during the preceding 24 hours, tons ~~800~~ lbs.

Coal remaining on hand at Noon, 32 " 1391 "

P. M.												
1			S.E.	S.E.	1	29.70	71	69	66	b.c.	cir-cum	6	S
2			S.S.E.		1-2	29.69	71	69	64	"	"	2	"
3				S.by E.	2	29.69	70	69	64	"	"	2	"
4			S.by W.	South	2	29.69	69	69	68	"	"	8	"
5			S.S.W.	S.S.W.	2	29.71	69	69	68	"	"	2	"
6			"	"	2	29.72	69	68	64	"	"	2	"
7			"	"	2	29.72	69	69	66	"	"	6	"
8			"	"	2	29.72	73	71	66	b.c.m.	"	2	"
9			S.by W.	"	2	29.72	73	71	64	1	none	10	"
10			"	"	1	29.72	72	71	68	"	"	10	"
11				"	1	29.72	72	70	64	"	"	10	"
Mid.			S.S.W.	"	1	29.72	71	70	64	"	"	10	"

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday June 12th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Generally clear and pleasant. Light breeze from N.W. Fire party returned at 12:55.

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 A.M.
Clear pleasant weather. Light airs from N.W. at 5:30 Flagship signalled 3:5 Command of under 2d Div, 2d Squadron distinguishing pennant. Following men returned on board at hours portions Jos O'Neil Lds, W.J. Dazey, W. Tar and F.J. Porter 2.8.F.

B.H. Wadleigh
Lieut U.S.N.

From 8 A.M. to Meridian
Bright & hazy weather light air cum clouds. Light variable airs. At 9:30 Comdg officer inspected ship's crew at quarters. Read muster and published Dept G.C.M. Orders Nos 8, 9, 11, 12, 13 & 14. Station Fire Orders 9, 10, 11 and Routine Fire Orders 1, 2 & 3 also copies of a letter from H.I.J.M.'s Minister for Foreign Affairs with letter of transmittal from U.S. Minister to Japan, both concerning rescue of certain Japanese fishermen by U.S.S. "Essex". Held Divine Service.

A. Commstone.
Ensign U.S.N.

From Meridian to 4 P.M.
Clear bright and pleasant. Light airs and breeze from South to S.E. Sent liberty party ashore.

W.B. Hoggatt
Ensign U.S.N.

From 4 to 8 P.M.
Partly clear with cir cum clouds. Hazy last hour. Light breeze from S.S.W. Held Divine Service on board.

A. Commstone.
Ensign U.S.N.

From 8 P.M. to Midnight
Clear bright and pleasant. Light breeze and airs from S.S.W.

W.B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

A. Marshall Lieut-Cdr Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Sits Head													
A. M.				S	S												
1				S by W.	"	1			29.73	41	64			bc	cir cum	7	S
2				"	"	1			29.74	41	64			"	"	7	"
3				S S E	"	1			29.75	40	69	62		"	"	6	"
4				S by W.	S W.	1			29.76	40	69	66		"	"	8	"
5				South	South	1			29.77	40	66	63		b cu	"	7	"
6				W. by W.	N W.	1			29.79	46	65	63		"	"	6	"
7				N W. by N.	"	1			29.80	69	65	69		"	"	8	"
8				S E	S E	1			29.81	40	64	65		"	"	9	"
9				S E	S E	1			29.82	41	70	67		"	"	9	"
10				S S E	S S E	1			29.82	42	71	69		"	"	9	"
11				S S E	S S E	2			29.81	42	69			bc	"	9	"
Noon.				S by E	"	2			29.81	42	69			"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.: Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M.: Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 280 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1610 "

Coal consumed during the preceding 24 hours, tons lbs.

Coal remaining on hand at Noon, 32 " 991 "

P. M.												
1	S S E	S S E	2	29.81	45	70	bc	cir cum	6	S
2	S W by S	"	2	29.81	45	70	"	"	6	"
3	S by W.	"	2	29.80	46	69	"	"	6	"
4	South	South	2	29.80	44	68	"	"	6	"
5	"	"	2	29.81	46	69	"	"	4	"
6	"	"	2	29.81	46	69	"	"	2	"
7	"	"	1	29.81	46	69	"	"	2	"
8	"	"	1	29.81	45	69	"	"	1	"
9	S by E	"	1	29.82	48	69	"	"	1	"
10	"	"	1	29.85	43	68	"	"	3	"
11	"	"	1	29.85	43	68	"	"	2	"
Mid.	South	"	1	29.85	43	68	"	"	2	"

under the command of Commander P. F. Harris, U. S. Navy,
Monday June 13th, 1881.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian to 4 A.M.
Clear and pleasant. Light airs from East and S.W.

C.A.F. Jeachum
Ensign U.S.N.

From 4 to 8 A.M.
Hazy and bright with cirrus clouds. Light airs from East 1st part hour, N.E. afterwards.

H. H. Bronston
Ensign U.S.N.

From 8 A.M. to Meridian
Clear warm and pleasant. Light airs and breeze from S.E. and S.S.E. at 9.30 beat to General Quarters. Examined Magazine and Shell room flood cocks, also drill Gun Cotton and electrical apparatus, all in good condition. By order of the Duty Officer restored L. F. Dunn (Boatswain) to duty temporarily.

W.B. Haggatt
Ensign U.S.N.

From Meridian to 4 P.M.
Partially clear and warm. Light breeze from S.S.E. at 1.00 exercised Battalion.

C.A.F. Jeachum
Ensign U.S.N.

From 4 to 8 P.M.
Partially cloudy. Light breeze and airs from South at 6:15 exercised Sea at Quarters. Transferred P. O'Brien, C.F.C. and N. Gibson, Ord. Sea. to Naval Hospital.

W.B. Haggatt
Ensign U.S.N.

From 8 P.M. to Midnight
Cloudy. Light airs from South.

C.A.F. Jeachum
Ensign U.S.N.

Examined and found to be correct.

W. W. Mahan
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Points Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				South	South	1			29.82	74	74	69		b.cum.	cir.cum.	2	S
2				S. by E.	"	1			29.81	74	74	69		"	"	3	"
3				S. by W.	"	1			29.81	74	74	69		"	"	4	"
4				W. by S.	"	1			29.81	74	74	69		"	"	4	"
5				N.W. by W.	N.W.	1			29.82	74	74	69		"	"	2	"
6				N.W.	"	1			29.83	74	74	69		"	"	4	"
7				North	N. by W.	1			29.85	74	74	69		"	"	6	"
8				N.E.	N.N.E.	1			29.84	74	74	69		"	"	6	"
9				N.N.E.	"	1			29.84	74	74	69		"	"	6	"
10				E.N.E.	E. by N.	1			29.84	74	74	69		"	"	6	"
11				"	"	1			29.85	74	74	69		"	"	6	"
Noon.				N. by E.	"	1			29.84	74	74	70		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 280 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1330 "

Coal consumed during the preceding 24 hours, tons 4 cwt lbs.

Coal remaining on hand at Noon, 32 " 591 "

P. M.																	
1				N.E.	E.N.E.	1			29.84	74	74	70		b.cum.	cir.cum.	6	S
2				"	"	2			29.84	74	74	70		b.c.	"	0	"
3				N.E. by E.	N.E. by E.	2			29.84	74	74	69		b.c.	"	0	"
4				"	East	3			29.83	74	74	69		b.c.	"	0	"
5				N.E.	"	3			29.81	74	73	69		b.c.	cum.mid	0	"
6				"	"	3			29.83	74	73	69		"	"	0	"
7				"	"	3			29.81	74	73	69		b.c.	"	0	"
8				N.E. by E.	"	3			29.79	74	71	68		"	"	3	"
9				E.N.E.	N.E.	2			29.80	74	71	70	68	b.cum.	cum.str.	3	"
10				N.E.	"	2			29.80	74	71	69	68	"	"	4	"
11				"	"	2			29.80	74	71	69	68	b.cum.	cum.mid	0	"
Mid.				"	"	2			29.79	74	71	68	68	"	"	6	"

under the command of Commander T. F. Jewell, U. S. Navy,
Tuesday July 14th, 1885.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced 4th Watch 4 A. M.
Weather gradually clearing. Light airs from S. S. E.
T. F. Jewell
Ensign U. S. N.

From 4 to 8 A. M.
Clear and hazy first part, cloudy last part. Light airs from E. S. E. to N. N. E. N. E. Boyle, P. A., returned on board overtime. Flag-hoist made, dress signal II squadron II division pennant 3 numerals 1.
W. B. Haggott
Ensign U. S. N.

From 8 A. M. to Meridian
E. N. E. airs. Cloudy weather. Relieved temporarily Lt. Thompson Launch Lighter. At 9.30, signal preparatory 59 and at 10. same without preparatory. Embarked battalion at 10.
G. A. Bicknell
Lieut Comdr U. S. N.

From Meridian to 4 P. M.
E. N. E, gentle breeze. Light shower, at 3 p.m. Battalion returned at 3.30.
G. A. Bicknell
Lieut Comdr U. S. N.

From 4 to 8 P. M.
Over cast and cloudy with occasional drizzling rain. At 6. 15 mustered at quarters.
A. F. Fechteler
Ensign U. S. N.

From 8 P. M. to Midnight
Cloudy weather. Light breeze from N. E.
T. F. Jewell
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.				N. N. E.	N. N. E.	2			29.76	69	68	66		o.c.h.	cumulus	0	S
1				"	"	2			29.74	69	68	66		"	"	0	"
2				"	"	2			29.73	68	68	66		"	"	0	"
3				"	"	2			29.72	68	64	66		"	"	0	"
4				N. by E.	North	3			29.70	68	64	65		"	"	0	"
5				"	"	3			29.72	67	66	65		"	"	0	"
6				E. by S.	"	3			29.71	69	64	65		"	"	0	"
7				S. E.	"	2			29.69	70	64	66		"	"	0	"
8				"	E. N. E.	3			29.62	69	68	64		o.c.h.	"	0	"
9				East	"	3			29.66	70	69	68		"	"	0	"
10				"	"	3			29.63	71	70	68		"	"	0	"
11				South	"	3			29.63	70	69	67		"	"	0	"
Noon.																	

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: { Latitude by D. R. ° ' "; Longitude by D. R. ° ' "; Latitude by observations of ⊙ ° ' "; Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. { Latitude by ° ' "; Longitude by ° ' "

Position at 8 P. M. { Latitude by ° ' "; Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 280 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 10501 "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 32 " 191 "

P. M.																	
1				S. W. by W.	E. N. E.	2			29.62	70	69	68		o.c.h.	cumulus	0	S
2				N. W.	N. W.	2			29.62	70	68	64		"	"	0	"
3				N. E.	"	2			29.62	70	68	64		"	"	0	"
4				N. by E.	N. by W.	2			29.62	70	68	64		"	"	0	"
5				"	"	2			29.62	69	64	66		"	"	0	"
6				"	"	2			29.63	68	66	65		"	"	0	"
7				N. N. E.	"	2			29.63	68	66	65		"	"	0	"
8				N. by E.	"	2			29.63	64	65	64		"	"	0	"
9				"	N. N. W.	2			29.64	64	65	64		"	"	0	"
10				North	"	2			29.64	66	65	64		"	"	0	"
11				"	North	2			29.63	68	64	63		"	"	0	"
Mid.				N. by W.	"	2			29.63	65	63	62		"	"	0	"

under the command of Commander T. F. Moore, U. S. Navy,
Thursday June 15th, 1882.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A. M.
Overcast & rainy. Passing showers. Light breeze from N. N. E.

From 4 to 8 A. M. Lieut. Galloway U. S. N.
Overcast & cloudy with light, drizzling rain. Light breeze from North & N. N. E. A Japanese man-of-war, came in & anchored. The Commander left the ship on five days furlough.

From 8 A. M. to Meridian. C. A. Mecutchen Ensign U. S. N.
Overcast & rainy with heavy rain squalls, at times. Light to gentle breeze from E. N. E. The Condg Officer of the Austrian man-of-war "Aurora" paid an official visit to the ship. By order of Condg Officer placed C. C. Paradis Lds & Wm. Thompson L. T. in double irons for five days. By order of Condg Officer L. J. Dumm, Bk Smith, was divested of Lanyard.

From Meridian to 4 P. M. T. J. Toomey Ensign U. S. N.
Overcast with heavy rain. Light breeze from N. W.

From 4 to 8 P. M. Lieut. C. C. Galloway U. S. N.
Overcast with heavy rain. Light breeze from N. by W. At 5 o'clock a Japanese man-of-war came in & anchored & fired a salute of thirteen guns with the U. S. & French flags at the fore.

From 8 P. M. to Midnight T. J. Toomey Ensign U. S. N.
Overcast & rainy. Gentle to moderate breeze from N. N. W. & West.

C. C. Galloway Lieut U. S. N.

Examined and found to be correct.

F. F. Moore Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				North	North	2			29.61	64	63	62		b.c.r.	cumuli	0	1
2				"	"	2			29.62	64	63	62		"	"	0	"
3				N. by W.	"	2			29.60	64	63	62		"	"	0	"
4				"	"	2			29.59	64	63	62		"	"	0	"
5				N. N. W.	N. N. W.	2			29.60	64	62	61		"	"	0	"
6				N. by W.	"	2			29.63	64	63	62		b.c.	cum-nim	0	"
7				"	"	2			29.64	65	63	62		b.c.	cum	2	"
8				N. N. E.	"	3			29.64	66	64	63		"	cu-cum	6	"
9				N. E. by N.	"	2			29.64	68	66	64		"	cum	4	"
10				"	N. E.	2			29.66	69	64	65		"	cir-cum	5	"
11				E. by N.	"	2			29.66	69	69	66		"	"	5	"
Noon.				"	"	2			29.64	70	69	65		"	"	6	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 280 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2410 "

Coal consumed during the preceding 24 hours, tons Hrn lbs.

Coal remaining on hand at Noon, 31 "2031 "

P. M.																	
1				S. E.	S. E.	2			29.63	70	69	66		b.c.	cir-cum	8	S
2				S. S. E.	"	2			29.62	72	70	69		"	"	8	"
3				South	"	2			29.62	73	71	68		"	"	4	"
4				S. by W.	"	2			29.62	73	72	68		"	"	4	"
5				South	S. W.	2			29.62	73	72	68		"	"	5	"
6				S. by W.	"	2-3			29.64	72	72	68		b.c.	cum-nim	0	"
7				S. by E.	South	2-3			29.64	72	72	68		"	"	0	"
8				South	"	2-3			29.63	72	72	68		"	"	0	"
9				S. by E.	"	3			29.62	72	72	68		"	"	0	"
10				"	"	3			29.63	72	72	68		"	"	0	"
11				"	"	3			29.64	72	72	69		"	"	0	"
Mid.				South	"	2			29.62	72	72	69		b.cl.	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Thursday June 16th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends at 4 A.M.

Overcast rainy weather. Light breezes from East

B.T. Waller
Lieut U.S.N.

From 4 to 8 A.M.

Weather clearing. Light airs from N.N.W. Received in Pay Dept for issue to crew 13 lbs beef, 13 lbs vegetables and 105 lbs bread. At 7.20 sent down 1 pair yards & set light sails. At 7.50 loosed sail.

J. Simmons
Ensign U.S.N.

From 8 A.M. to Meridian

Fair, clearing weather. Warm. Light breezes from N.N.W & N.E. At 9.30 mustered at quarters. Absentees: J.E. Debbis 1.C.A, C. Rutledge Sea, J.F. Jarrett, Sea 2 C, C. Soderise 2 C F, J.F. Tuohey, P.M, W.H. Graham P.M and J. Hassop, P.M. At 9 Flagship made special signal C1. At 9.50 sail drill. Furled from a bowline, crossed light yards, made plain sail, unbent light sails crossed topgallant yards, loosed sail to a bowline. Finds Affair light ship at 10. to pay official visits.

E.D. Galloway
Lieut U.S.N.

From Meridian to 4 P.M.

Clear pleasant weather. Light breezes from S.E. At 1.00 Flagship made general signal 4826. Furled sail. Hove up both anchors and taken in tow by launchs of fleet to new berth. At 2 P.M. W.H. Graham, P.M. returned on board ship from temporary duty ashore.

J. Simmons
Ensign U.S.N.

From 4 to 8 P.M.

Fair first part, clouding latter part. Gentle breeze from S.E. shifting to S.W then to South. At 5 Chief Engr Stevens returned from leave of absence. At 5.30 moored ship fore part chain 30 on starboard chain. Put on mooring swivel. Flagstaff on English Hadaba to W. 1/4 S. Flagstaff on English Store House S by E. Received from "Brooklyn" 11 M Gals distilled water. At 6.30 mustered at quarters, absentees (as above except W.H. Graham, P.M.) Reported.

E.D. Galloway
Lieut U.S.N.

From 8 P.M. to Midnight

Overcast weather. Drizzling rain last hour. Light to gentle breeze from South.

B.T. Waller
Lieut U.S.N.

Examined and found to be correct.

A.V. Graham Lieut
Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Ships Head													
A. M.																	
1				S by E	South	2			29.62	24	64	60		o cir	cumu	0	S
2				S.W. by W.	"	3			29.62	24	64	68		"	"	0	"
3				N.W. by N.	"	2			29.62	24	69	64		"	"	0	"
4				N.W. by W.	N.W.	2			29.63	24	69	64		"	"	0	"
5				N. by W.	"	2			29.64	24	69	64		o cir	cumu nimb	0	"
6				N.W.	"	2			29.69	24	69	64		"	"	0	"
7				"	"	2			29.70	24	64	64		"	"	0	"
8				"	"	1-2			29.71	24	64	66		o cum	"	0	"
9				N by W.	N by W.	2			29.69	69	64	65		"	"	0	"
10				North	North	2			29.68	69	64	65		"	"	0	"
11				N E by N	E by N	1			29.68	24	68	66		"	"	0	"
Noon.				S E by E	E by N	1			29.70	24	69	64		"	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 800 gallons.

Water received during the preceding 24 hours, 1100 "

Water remaining on hand fit for use at Noon, 15240 "

Coal consumed during the preceding 24 hours, tons 801 lbs.

Coal remaining on hand at Noon, 31 " 1231 "

P. M.														
1			SE by S	SE	2		29.70	24	70	64	o cum	mist	0	S
2			S by E	South	2		29.71	24	70	64	"	"	0	"
3			South	"	2		29.71	24	70	64	o cir	"	0	"
4			S by W	"	2		29.69	24	70	64	o c	"	0	"
5			S by E	"	1-2		29.70	24	70	68	o cir	cumu mist	0	"
6			S by W	"	1-2		29.70	24	69	68	"	"	0	"
7			South	"	1		29.69	24	69	64	o c	"	0	"
8			E by S	"	1		29.69	24	69	68	"	"	0	"
9			South	"	2		29.70	24	70	68	"	mist	0	"
10			S by W	"	2		29.72	24	70	68	o cir	"	0	"
11			SW	SW	2		29.72	24	69	68	"	"	0	"
Mid.			"	"	2		29.74	24	69	64	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Friday June 1st, 1883.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and Until 4 A. M.
Overcast with nimbus clouds. Continual rain accompanied by lightning and thunder. Light airs and gentle breeze from South the last hour, when wind came out N.W. in light breeze. Ht tide.

H. Townsend
Ensign U. S. N.

From 4 to 8 A. M.
Overcast and raining. Gentle breeze from N.W. at 6 a.m. Japanese Flagship and a gun vessel came in and anchored. At 7.30 Flagship made usual time signal, which was answered.

Chas Galloway
Asst Surg U. S. N.

From 8 A. M. to Meridian
Overcast with misty weather. Light breezes from N. N. W and North. Light airs from North and E. N. E. Received on board new smoke pipe. Absent without leave J. C. Dubois, 1. C. A, and P. Rutledge, Pa. 2. C.

D. T. Waeling
Asst Engr U. S. N.

From Meridian to 4 P. M.
Overcast with nimbus clouds. Hazy, passing showers 3d hour. Light breeze from S. E. 1st hour. South afterwards. At work cleaning bilges and fitting smoke pipe in Engineers Dept. C. Roderick 2. C. F, was brought on board from U. S. Consular Guard. Japanese Admiral called on board U. S. F. S. Brooklyn and was saluted with 13 guns on leaving.

H. Townsend
Ensign U. S. N.

From 4 to 8 P. M.
Overcast weather with passing showers first part of watch. Light airs and breezes from South.

D. T. Waeling
Asst Engr U. S. N.

From 8 P. M to Midnight
Overcast with nimbus clouds. Raining after 1st hour. Lightning to S. Light breeze from South to S. W. J. C. Dubois, 1. C. A. and P. Rutledge, Pa. 2. C, came on board 3 1/2 hrs overtime.

H. Townsend
Ensign U. S. N.

Examined and found to be correct.

A. T. Mahan
Lieut U. S. N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S.W. by S.	S.W.	2			29.67	40	40	68		b.c	cumb	0	S
2						2			29.70	40	40	68		"	"	0	"
3				W. by N.	N.W.	2			29.72	41	40	68		"	cumu	3	"
4						2			29.73	40	69	68		"	"	1	"
5				N. by W.	"	1-2			29.76	40	69	64		b.c	cir. cumu	2	"
6				N.W. by N.	N.N.W.	1-2			29.78	40	64	66		b.c.	"	4	"
7				N.W. by W.		2			29.81	40	66	65		"	"	4	"
8				N.E.	North	1			29.83	40	66	65		"	"	4	"
9				N.N.E.	"	2			29.85	40	66	65		b.cu.	"	6	"
10				N by E		2			29.84	40	40	68		"	"	6	"
11				East	East	2			29.88	43	40	68		"	"	4	"
Noon.				E. by S.	"	2			29.88	43	40	68		"	"	8	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 1219 "

Coal consumed during the preceding 24 hours, tons ~~four~~ lbs.

Coal remaining on hand at Noon, 31 " 831 "

P. M.																	
1				S.E. by E.	Calm	0			29.86	43	269		b.c	cir-cum	6	S
2					E.S.E.	1			29.85	43	369		"	"	6	"
3				East	"	2			29.83	44	340		"	"	2	"
4				S.W. by W.	"	2			29.83	44	340		"	"	2	"
5				W. by N.	"	2			29.83	45	440		"	cir-clo	2	"
6				W. by S.	"	2			29.84	45	440		"	"	2	"
7				S.W. by W.	South	2			29.86	45	369		"	"	4	"
8				S.S.W.	"	2			29.86	45	369		"	"	4	"
9				South	"	2			29.90	43	240		"	cir-cum	6	"
10					"	2			29.91	43	241		"	"	5	"
11				S. by W.	"	2			29.92	43	240		"	"	6	"
Mid.				N.E.	N.E.	3-6			29.94	43	241		"	cum-nimb	8	"

under the command of Commander T. F. Jewell, U. S. Navy,

Saturday June 18th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

From Meridian until 4 A.M.

Generally overcast. Light breze from N.W. and S.W.

W.R. Hoggatt
Ensign U. S. N.

From 4 to 8 A.M.

Foggy weather. Light airs and breze from N.W. and N.N.W. Light airs from North. Received on board and issued to crew 131 lbs fresh beef 131 lbs fresh vegetables and 104 lbs fresh bread.

L. B. T. Waddy
Lieut U. S. N.

From 8 A.M. to Meridian

Bright and clear with cirro cumo clouds. Hazy around horizon. Light breze from North to East. Private Hosack came on board having been absent 48 hours without leave. At 11 am called all hands to muster and published Station General Order No. 12. Hands from shore fitting mud smoke pipe. Airing bedding. At 8 Flagship made General signals 10 & 7.

A. Townsend
Ensign U. S. N.

From Meridian to 4 P.M.

Fair and warm. Gentle breze from E.S.E. At 1:00 Flagship made signals 22 & 0. Piped down aired bedding and stowed hammocks. J. F. Gerrity, Sea 2 C, was returned on board from American Consulate. Received in Engrs Dept 7 castings for grate bars.

E. D. Galloway
Lieut U. S. N.

From 4 to 8 P.M.

Partly clear with cirro stro clouds. Light breze from E.S.E. & E. part South afterwards. Light ripples scud from S. & rud of water. Released Private J. F. Embry, P.M., he being sober. Taking off mooring swivel after 7 o'clock.

A. Townsend
Ensign U. S. N.

From 8 P.M. to Midnight

Generally cloudy squally last hour. Light breze from South first three hours, fresh squalls last hour from N.E. Finished taking off mooring swivel and sent chain.

W.R. Hoggatt
Ensign U. S. N.

Examined and found to be correct.

F. M. Bradburn Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				E. by N.	E N E.	3-4			29.92	70	71	68		o.c.	cumm	0	S
2				"	"	3-4			29.92	70	70	68		o.c.r.	cumm-nimb.	0	"
3				North	North	2-3			29.92	70	69	67		o.c.	"	0	"
4				N. by W.	"	2-3			29.92	68	68	66		"	"	0	"
5				"	"	3-4			29.94	69	68	66		o.c.	"	0	"
6				North	"	3-4			29.97	69	68	66		"	"	0	"
7				N. by E.	"	3-4			29.99	69	67	65		"	"	0	"
8				N. E. by N.	"	3			29.99	68	66	65		"	"	0	"
9				East	N. N. E.	2			30.00	69	67	66		"	"	0	"
10				E. by S.	"	2			30.00	70	68	67		b.c.	cir-cumm	2	"
11				S. E. by E.	East	2			30.00	71	69	67		"	"	6	"
Noon.				E. S. E.	E S E.	2			30.00	72	70	68		"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 9700 "

Coal consumed during the preceding 24 hours, tons 800 lbs.

Coal remaining on hand at Noon, 31 "31 "

P. M.																	
1				S E.	S E.	2			29.98	72	70	68		b.o.	cir cum	8	S
2				"	"	2			29.98	74	71	69		"	"	8	"
3				"	"	1			29.98	76	73	70		"	"	8	"
4				"	S " E.	1			29.99	76	73	70		"	"	8	"
5				S by E.	S S E.	2			29.96	76	74	70		"	"	6	"
6				S. W. by S.	S S W.	2			29.94	76	75	70		"	"	6	"
7				S W.	"	2			29.99	74	74	70		"	"	8	"
8				S S W.	South	2			29.99	73	73	70		"	"	8	"
9				S S W.	"	1			29.99	73	72	70		b.	cumm	10	"
10				S S W.	S " S W.	1			29.99	73	70	69		b.f.	"	10	"
11				South	"	1			29.99	73	70	69		b.c.f.	cir cum	8	"
Mid.				S by E.	South	1			29.99	73	70	68		"	"	8	"

under the command of Commander T. F. Jewell, U. S. Navy,
Sunday June 19th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Ends A. M.

Overcast & cloudy with rain at intervals. Light to moderate breze from E. N. E & North. Clear Decks.

A. F. Dennison
Ensign U. S. N.

From 4 to 8 A. M.

Overcast & cloudy. Light to moderate breze from North. At 7.30. Flagship made usual time signal. A Russian Steamer came in and moored.

H. C. Poundstone
Ensign U. S. N.

From 8 A. M. to Meridian.

Cloudy first part clear & coarse last hour. Light breze from N. N. E & E. S. E. Russian man-of-war fired a Salute of 21 Guns Japanese flag at the main. afterwards saluted Russian Consul with 7 guns. At 9.30 went to quarters for inspection. Hove in starboard chain to 30 fms.

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P. M.

Clear & pleasant. Light breze from S. E. At 2 the British men-of-war "Audacious" flying a Vice Admiral flag & the "Iron" came in & anchored. Sent an officer to make the usual visit. Clear Decks.

A. F. Dennison
Ensign U. S. N.

From 4 to 8 P. M.

Clear & pleasant. Light breze from S. S. E. to S. Sd. & E. Divine Service.

W. B. Hoggatt
Ensign U. S. N.

From 8 P. M. to Midnight

Clear & pleasant. Light airs from South & S. Sd. & E. Clear Decks.

A. F. Dennison
Ensign U. S. N.

Examined and found to be correct.

A. T. Mahan Lieut. U.S.N. Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S E by S	S E	1			29.99	43	41	40		b.cu.	cir-cumu	8	S
2				S E	"	1			29.99	43	41	40		"	"	7	"
3					"	1			29.99	43	41	40		"	"	6	"
4				S E by S	"	1			29.99	43	41	40		"	"	8	"
5				South	S S E	1			29.97	44	40	69		b.cu.	cum nimb.	0	"
6				S S W.	South	1			29.96	41	40	69		"	"	0	"
7					"	1			29.94	42	40	69		"	"	0	"
8				S by W.	"	1			29.98	42	41	69		b.c.	cir-cumu	3	"
9				S by E	"	1			29.99	42	42	40		"	"	8	"
10				S S E	"	1			29.96	45	43	40		b.cu.	"	4	"
11					"	2			29.93	45	44	40		"	"	3	"
Noon.				South	"	2			29.90	46	44	40		"	"	3	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 620 "

Coal consumed during the preceding 24 hours, tons 4 lbs.

Coal remaining on hand at Noon, 30 " 18 1/2 "

P. M.																	
1				S S E.	South	1			29.86	45	44	40		o.c.	mist.	0	S
2				E S E.	Calm	0			29.81	45	43	40		"	"	0	"
3				N E.	N. E.	0-1			29.76	44	42	40		"	"	0	"
4				N by W.	N. N. W.	1			29.70	44	41	40		"	"	0	"
5				N. N. W.	"	1-2			29.65	43	41	40		"	"	0	"
6					"	2			29.60	43	41	40		"	"	0	"
7				N W.	N W.	2			29.52	41	69	68		"	"	0	"
8					"	2			29.49	40	69	64		"	"	0	"
9				N W by W.	"	2			29.41	41	40	68		"	"	0	"
10					"	1			29.38	41	40	68		"	"	0	"
11				S W by S	S W	1-0			29.36	42	40	40		o.c.	g.	0	"
Mid.				S S W.	"	3-0			29.34	43	43	41		"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,
Monday June 20th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Ed Cutis + A. M.
Clear first part, cloudy last part. Hazy around horizon. Light airs from S. E.

T. J. Toomey
Ensign U. S. N.

From 4 to 8 A. M.
Generally cloudy, clearing last hour. Light airs from S. S. E. to South. Torpedo made special signal II Div. II Squadron pennant, 33 numerals 38 Geographical 1. French Gun-boat Aspic came in at 5 A.M.

W. B. Haggard
Ensign U. S. N.

From 8. A. M. to Meridian
Warm. Generally cloudy. Light breeze from South. At 8.00 sent an officer to make customary visit of courtesy to French Gun-boat "Aspic." At 9.30 exercised at General Quarters. Released C. O. Paradis Lds, & Wm. Thompson, L. L. their terms having expired. Steam cutter broke down. Clear hawse. Got off new main and jiggers.

C. A. Peaslee
Ensign U. S. N.

From Meridian to 4 P. M.
Overcast with heavy rain. Calm to light variable airs. At 2.15 Russian man-of-war fired a salute of 15 guns Russian Diplomatic flag at fore. At 3.20 sent sailing launch to Flagship for fresh water. Mechanics from shore at work in Engineers Department.

T. J. Toomey
Ensign U. S. N.

From 4 to 8 P. M.
Cloudy & rainy. Light breeze from N. W. & N. N. W. Received from "Brooklyn" 1000 gallons fresh water. The Commander returned from leave. Cross in hawse.

C. A. Peaslee
Ensign U. S. N.

From 8 P. M. to Midnight
Cloudy. Raining heavy first two hours. Light rain & squally last part. Light airs and breeze from N. W. to fresh squalls from S. W. Veered in hawse. Riding to Starboard anchor, port chain on hook.

T. J. Toomey
Ensign U. S. N.

Examined and found to be correct.

A. V. Wadhams. Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass.	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.				Ships Head													
1				S. S.W.	S.W.	3-5			29.36	74	72	70		o.c.f.	mink	0	S.
2				N. by E.	N. by W.	2-3			29.34	74	74	70		"	"	0	"
3						2-3			29.38	74	74	70		"	"	0	"
4				N. E. by N.	N. N. E.	2			29.39	74	70	69		o.c.f.	cum mist.	0	"
5						2			29.42	74	70	69		"	"	0	"
6				East	East	2			29.44	74	70	69		o.cu.	"	0	"
7						2			29.50	74	70	69		"	"	0	"
8				N. N. W.	N. N. W.	2			29.51	74	70	69		"	"	0	"
9				N. N. E.	N. E.	3			29.52	74	70	68		o.c.	"	0	"
10				E. N. E.	"	2			29.55	74	70	68		"	"	0	"
11				S. E. by E.	East	2			29.58	74	70	68		"	cum	0	"
Noon.				"	"	2			29.61	74	70	68		b.c.	cir-cum	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Received during the preceding 24 hours, 1000 "

Water remaining on hand fit for use at Noon, 1320 "

Coal consumed during the preceding 24 hours, tons 400 lbs.

Coal remaining on hand at Noon, 30 " 1421 "

P. M.										
1	S.E. by S.	S.E.	2	29.62	74	70	69	b.c.	cir-cum	1	S.
2	S.S.E.	"	2	29.63	73	72	69	"	"	2	"
3	"	"	2	29.63	74	72	70	"	"	2	"
4	S. by E.		2	29.64	74	73	70	"	"	2	"
5	S. by W.	S. by W.	2	29.64	74	72	70	"	"	2	"
6	S. by E.	S. by E.	2	29.64	74	72	70	"	mist	1	"
7	"	"	2	29.64	74	72	69	"	"	1	"
8	"	"	1	29.64	74	72	69	"	"	1	"
9	S.W.	S.S.W.	1	29.68	74	71	69	"	"	3	"
10	N.W.	N.W.	1	29.70	74	72	69	"	"	4	"
11	Calm	Calm	0	29.72	74	71	69	"	"	5	"
Mid.	"	"	0	29.73	74	72	69	"	"	5	"

under the command of Commander T. F. Jewett, U. S. Navy,
Tuesday June 21st, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Ended Until 4 A. M.

Overcast and rainy. Moderate to fresh breeze from S. S. W. first hour shifting to N. W and becoming light remainder of watch. Furl sails, port chain on hook.

C. D. Galloway
Asst Surg. U. S. N.

From 4 to 8 A. M.

Overcast and cloudy. Light breeze from East and N. N. W. Scraped spars. At 8 oc dressed ship, saluted with English flag at main. Clear hawse.

C. A. Tenney
Ensign U. S. N.

From 8 A. M. to Meridian

Cloudy. Light airs to gentle breeze from N. by E. At 9.30 mustered and inspected at quarters. Exercised at company drill. At noon the Saluting vessels fired, a salute in honor of her Britannic Majesty's Jubilee. Recd. an official visit from Comdg. Officer H. M. S. Heroine.

T. J. Towers
Ensign U. S. N.

From Meridian to 4 P. M.

Fair and mild. Light breeze from S. E. Lieut. B. T. Walling U. S. N. was detached and ordered to the "Brooklyn".

C. D. Galloway
Asst Surg. U. S. N.

From 4 to 8 P. M.

Cloudy. Light breeze from S. by E. At sunset undressed ship. Liberty party returned on board. Pleas A. Campbell (Seaman) under sentry's charge.

T. J. Towers
Ensign U. S. N.

From 8 P. M. to Midnight

Fair and mild. Light airs from W. Placed P. Tobey, O. N., under sentry's charge until 10 o'clock. Furled sails. Starboard chain on hook.

C. D. Galloway
Asst Surg. U. S. N.

Examined and found to be correct.

A. W. Graham. Lieut and Navigator.

LOG of the UNITED STATES Steamer "Essex", 2d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				W. by W.	Same	0			29.72	47	69			b.c.	cir-cumu	5	S
2				S.W. by S.	"	0			29.71	47	69			"	"	6	"
3				"	"	0			29.71	47	68			"	"	6	"
4				N. N. W.	"	0			29.71	47	68			"	"	5	"
5				"	"	0			29.73	47	68			cum.	cumu	0	"
6				N. W.	N. W.	1			29.73	47	68			"	"	0	"
7				"	"	1			29.73	47	68			"	"	0	"
8				"	"	1			29.73	47	68			"	"	0	"
9				N. N. W.	"	1			29.80	47	69			b.c.	cum str	3	"
10				"	"	1			29.82	47	70			"	"	4	"
11				East	East	1			29.84	47	70			"	"	5	"
Noon.				E. by E.	"	1			29.86	47	71			"	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 10201 "

Coal consumed during the preceding 24 hours, tons 4 cwt lbs.

Coal remaining on hand at Noon, 30 " 1021 "

P. M.												
1		S. E.	East	2	29.83	47	71	b.cu.	cir-cumu	5	S
2		"	S. E.	2	29.81	46	54	"	"	6	"
3		"	S. "	2	29.82	47	62	"	"	6	"
4		"	South	2	29.82	47	67	"	"	5	"
5		S. E. by S.	"	2	29.83	48	63	"	"	5	"
6		S. W. by S.	"	2	29.83	47	62	"	"	5	"
7		W. S. W.	"	2	29.83	46	41	"	"	4	"
8		S. W.	"	2	29.84	46	41	"	"	4	"
9		West	West	1	29.86	46	41	b.cu.	cumu	6	"
10		"	"	1	29.89	46	41	"	"	2	"
11		S. " S. W.	S. "	1	29.89	46	41	"	"	4	"
Mid.		S. by E.	South	1	29.89	46	41	"	"	9	"

under the command of Commander T. F. Jewett, U. S. Navy,

Wednesday June 22nd, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and Cutter at A.M.
Fair weather. Calm.

From 4 to 8 A.M.
Hazy with cirro clouds. Calm 1st hour. Light airs from N.W. afterwards. At 7.30 Flagship made preparatory 5 & 56. & at 7h. same signal 5 & 56. Loosed sails to, & boating. Rigged out sailing launch.
W. Loomis
Ensign U.S.N.

From 8 A.M. to Meridian
Fair & warm. Sultry. Light airs from N.W. and East. At 9.30 mustered at quarters. At 9 h. Flagship made signal Special 57. Exercised boats pulling, hoisting as per signal. Hauled him, stbd on hat.
W. E. Livingstone
Ensign U.S.N.

From Meridian to 4 P.M.
Hazy with cirro cumi clouds. Light breeze from East & S.E. N. ships. At 1 h. Flagship made general signal 4 & 6. Finished sail. F. Bussman, Pvt, came on board, 9½ hrs. port time. At 2.30, Flagship began to exercise vessels of squadron at signals of General Service Code. Elbowed in hawse.
W. C. Tomlinson.
Ensign U.S.N.

From 4 to 8 P.M.
Fair & warm. Light breeze from S.E. & E. Light. Steam Launch was returned from machine shop. Hoisted out boilers for repairs.
Ed. Galloway
Asst U.S.N.

From 8 P.M. to Midnight
Generally clear with cumi clouds around horizon. Bright starlight. Wet heavy dew. Light airs from West to S.W. A large steamer came in at 11 h.
W. C. Tomlinson
Ensign U.S.N.

Examined and found to be correct.

A. W. Watkins. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S. S. E.	South	1			29.84	74	74	70		b.cu.	cir-cum	8	S
2				S. E.	"	1			29.84	74	74	70		"	"	8	"
3				"	East	0			29.84	74	74	70		"	"	8	"
4				E. N. E.	"	0			29.86	74	74	70		"	"	4	"
5				N. W.	"	0			29.88	74	74	69		"	"	3	"
6				N. N. W.	"	0			29.84	74	74	70		c.cu.	"	0	"
7				W. N. W.	"	0			29.84	74	74	70		b.c.	"	2	"
8				N. N. E.	S. E.	1			29.84	74	74	70		"	"	4	"
9				S. E.	"	1			29.84	74	74	70		"	"	4	"
10				South	East	1			29.85	74	74	70		"	"	3	"
11				N. E. by E.	"	1			29.83	74	74	71		b.c.	cum-nim	0	"
Noon.				N. E.	"	1			29.79	75	73	71		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water ——— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 2740 "

Coal consumed during the preceding 24 hours, tons 4~~00~~ lbs.

Coal remaining on hand at Noon, 30 " 671 "

P. M.									
1	S. E.	S. E.	3	29.79	74	74	71	b.c. cum-nim.	0	S
2	E. S. E.	"	3	29.61	74	74	70	"	0	"
3	E. N. E.	N. E.	4	29.54	74	74	70	"	0	"
4	N. E.	"	4-5	29.49	74	73	69	"	0	"
5	N. N. W.	S. E.	2-1	29.40	74	72	70	"	0	"
6	N. W.	N. W.	4-4	29.32	70	68	64	b.cgr.	4	"
7	"	"	4-8	29.40	70	68	66	b.c.g. cum-str	4	"
8	N. N. W.	N. N. W.	3-4	29.47	71	70	64	" cum	2	"
9	N. W.	N. W.	1-2	29.48	74	73	68	b.c. cum-nim	2	S
10	W. N. W.	West	1	29.49	74	73	69	"	4	"
11	S. S. W.	Sound	1	29.49	74	73	70	"	4	"
Mid.	S. W.	S. W.	0-1	29.44	74	73	70	"	4	"

under the command of Commander I. F. Grace, U. S. Navy,

Thursday June 23d, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and Unrig 4 A.M.
Hazy and pleasant. Light airs from South first two hours.

From 4 to 8 A.M.
W.B. Hoggatt
Ensign U.S.N.

Fair and pleasant. Calm. At 7:30 Flagship made dress and time signal 7. numeral 33 - special. At 7:40 Gen'l Signal 61 & 3rd 2253. Sent down topgallant yards and sent light sails. At 8:15 fired two guns as a signal of arrival of American mail. Expended 2-9" 10 lbs charges & 2 Rx Primers in Div 2nd Batt.

From 8 A.M. to Meridian
Ed. Galloway
Asst Surg U.S.N.

Cloudy: overcast latter part; drizzling rain last hour. Clouds cir cum cum & nimb. Light airs from East & S.E. Received on Equipment 1/4 cord of wood. At 9:30 Flagship signalled exercise as per routine. Sent to quarters for inspection, after which, drilled as follows: 1st Div Sight Hands 2d Div Machine guns Powd. Stations & Marines, Infantry. At 9:50 began sail drill, finished at 11 A.M. Got in steam launch. Crossed in harbor.

From Meridian to 4 P.M.
H.C. Towns Asst Surg
Ensign U.S.N.

Cloudy raining heavily. Gentle breeze to stiff squalls from S.E. & N.E. Gen'l signal for Flagship II Div II Squadron Pennant numeral & blade at 1 P.M. Lost from 1st cutter while landing one oar and flagstaff.

From 4 to 8 P.M.
W.B. Hoggatt
Ensign U.S.N.

Cloudy with heavy rain 1st part. Clouds cum & nimb at first and cum str afterwards. Light to moderate breeze from S. Gentle 5:30 when wind came out suddenly from N.W. & continued from that direction to end of watch, moderate to very fresh breeze with frequent heavy squalls & rain. Blue sky showing occasionally latter part, with a low flying scud from N.W. At 6:15 Flagship made Gen'l Signal 6 & 3. Sent down topgallant yards. Got Sailing Launch in.

From 8 P.M. to Midnight
H.C. Towns Asst Surg
Ensign U.S.N.

Generally cloudy. Light airs and breeze from N.W. to South.

W.B. Hoggatt
Ensign U.S.N.

Examined and found to be correct.

A.V. Wadhams Lieut & Navigator.

LOG of the UNITED STATES Steamer Essex, 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S by W.	S.W.	2			29.50	34	34	40		b.cu.	cum rising	2	9
2				S.W.	"	2			29.50	34	34	40		"	"	3	"
3				W. S.W.	"	2			29.50	34	34	40		"	"	5	"
4				"	"	2			29.49	34	34	40		"	"	5	"
5				"	West	1			29.50	40	40	068		"	"	6	"
6				S.W.	"	1			29.54	40	69	64		"	"	7	"
7				"	"	1-2			29.58	42	42	64		"	"	7	"
8				N.W. by W.	N.W. by W.	2			29.60	42	42	68		b.c.	cir cum	8	"
9				W. S.W.	South	2			29.63	46	46	540		"	"	6	"
10				S by W.	"	2			29.66	46	46	642		"	"	5	"
11				S by E	"	2			29.68	46	46	742		"	"	5	"
Noon.				S S E	"	1			29.69	44	44	742		"	"	5	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 310 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 420 "

Coal consumed during the preceding 24 hours, tons ~~4~~ 3 lbs.

Coal remaining on hand at Noon, 30 " 241 "

P. M.																	
1				S S E	S S E.	1			29.69	42	42	43		b.c.	cir cum	8	9
2				"	"	1			29.70	80	78	44		"	"	2	"
3				E by S	E by S	2			29.72	80	78	43		"	"	2	"
4				E by S	E by S	2			29.73	80	79	43		"	"	2	"
5				S E by E	S by E	3			29.76	80	79	45		"	"	5	"
6				S E by E	S by E	4			29.79	82	76	42		"	"	4	"
7					S E by E	3			29.80	76	75	40		"	"	2	"
8				E by S	E by S	3			29.80	76	74	40		"	"	1	"
9				N E	N E	3			29.83	75	73	69		"	"	2	"
10				N W	S E	2			29.85	74	73	69		"	"	2	"
11						2			29.83	74	74	166		o.c.	Cum rising	0	"
Mid.				West	East	2			29.82	74	74	164		"	"	0	"

under the command of Commander T. F. Jewett, U. S. Navy,
Friday June 21st, 1878.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Cutie & A. M.
Cloudy. Light breeze from S.W. Clear hazy.
C.A.F. Dechman
Ensign U.S.N.

From 4 to 8 A. M.
Generally clear hazy the last hour. Clouds cum & cumst & Cir-cum. Light airs to breeze from N.W & West. At 7a.m., Flagship made preparatory 5 & 60 & at 7 & 15. Gen'l Signal 5 & 60. Loosed sail to a bowline & crossed t'gallant yards. Received in Pay Dept for issue to crew 30 lbs each fresh beef & vegetables & 10 lbs bread.
A. C. Pennington
Ensign U.S.N.

From 8 A.M. to Meridian
Generally clear warm. Light breeze & airs from South. Rose off new for royal braces. Expended 8 & 7 ins 2" manilla. Tailed old braces & shroud lanyard for lizzies. French man-of-war Primaguet left the harbor at 10 A.M. Received Mr. Fitzgerald, Las, from U.S. Naval Hospital.

From Meridian to 4 P.M.
W.B. Hoggatt
Ensign U.S.N.
Clear & pleasant. Light breeze from S.S.E & E.S.E. Clear hazy.
C.A.F. Dechman
Ensign U.S.N.
L. Fales, Ja Sea dismissed to Seamen for pilfering; T. Dutton, C.T. to Seaman; J. Chance Jr Gr to Seaman; H. Hudson, Ja Gr, rated to Gr Gr; W. Thompson, 2d, rated Gr Gr.

From 4 to 8 P.M.
Partly clear. Gentle to moderate breeze from E.S.E & S.E. at 6 it went to five quarters.
W.B. Hoggatt
Ensign U.S.N.

From 8 P.M. to Midnight
Cloudy & cool. Light to gentle breeze from N.E. then S.E. and at end of watch from East. Clear hazy.
C.A.F. Dechman
Ensign U.S.N.

Examined and found to be correct.

F.V. Wadhams. Lieut & Navigator.

LOG of the UNITED STATES Steamer "Esk", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	Force.	Hand.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Time obs'd.	TEMPERATURE. Dry Bulb.	TEMPERATURE. Wet Bulb.	TEMPERATURE. Number of Degrees of Dryness.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Depth of Clear Sky, in tenths.	State of the Sea.
A. M.																	
1				N.W.	S.W.	1			29.82	4	36	8		b.c.	cum-strat	0	S
2				N.N.E.	"	1			29.82	4	40	6		"	"	0	-
3				East	East	1			29.82	4	40	6		"	"	0	"
4				"	"	1			29.82	4	40	6		"	"	0	"
5				E. by N.	N.E.	1			29.82	4	40	6		"	"	0	"
6				N.E.	"	1			29.82	4	40	6		"	"	0	"
7				E. by N.	"	1			29.82	4	40	6		"	"	0	"
8				N.E.	"	1			29.82	4	40	6		b.c.	cum-strat	3	"
9				N.E. by E.	East	2			29.82	4	40	6		"	"	3	"
10				N.E. by E.	"	2			29.82	4	40	6		"	"	5	"
11				N.N.W.	E.S.E.	2			29.82	4	40	6		"	"	5	"
Noon.				N.N.W.	E.S.E.	1			29.82	4	40	6		"	"	4	"

Course and distance made good since preceding noon by observations, knots, tenths.

Position at Noon:
- *Latitude by D. R.* ° ' "
- *Longitude by D. R.* ° ' "
- *Latitude by observations of ⊙* ° ' "
- *Longitude by chronometer from Forenoon Observations of ⊙* ° ' "

Position at 8 a. m.:
- *Latitude by* ° ' "
- *Longitude by* ° ' "

Position at 8 P. M.:
- *Latitude by* ° ' "
- *Longitude by* ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water Received *during the preceding 24 hours,* 1000 "

Water remaining on hand fit for use at Noon, 11270 "

Coal consumed during the preceding 24 hours, tons 1500 lbs.

Coal remaining on hand at Noon, 39 " 2111 "

P. M.																	
1				W. by N.	South	1			29.78	4	62	50	21	b.c.	cir-cum	0	S
2				S.W.	"	2			29.74	4	58	50	12	"	"	4	"
3				"	"	2			29.72	4	54	50	12	"	"	4	"
4				"	"	2			29.74	4	56	50	12	"	"	2	"
5				S. by W.	"	2			29.74	4	56	49	14	"	"	2	"
6				South	"	2			29.72	4	56	49	14	"	"	1	"
7				S. by W.	"	2			29.72	4	60	53	10	b.c.	cum-strat	0	"
8				S.W.	"	2			29.72	4	62	52	10	b.c.	cir-cum	2	"
9				South	"	2			29.70	4	54	52	10	b.c.	cum-strat	0	"
10				"	"	2			29.70	4	54	52	10	"	"	0	"
11				W. by N.	"	1			29.70	4	52	52	10	b.c.	"	0	"
Mid.				N.W. by W.	"	1			29.70	4	52	52	10	"	"	0	"

under the command of Commander T. F. Jewell, U. S. Navy,
Saturday June 25th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commenced and ended 4 A. M.
Overcast and cloudy. Light airs from S.W. Clear harbor.
T. Toombs
Ensign U. S. N.

From 4 to 8 A. M.
Overcast. Clearing last hour. Light airs from East & N. E. Received 130 lbs fresh beef & vegetables & 104 lbs fresh bread. French gunboat Aspic left the harbor at 5.50. At 6.30 Flagship made General signal 4th Div. II Squadron pursuant 33rd numeral 1st Sub. port broad pennant.
W. B. Hoggatt
Ensign U. S. N.

From 8 A. M. to Meridian.
Weather pleasant. Partially cloudy. Light breeze from East and E. S. E. At 9 to Flagship made signal 10 knots. Aines heading.
A. T. Dechutes
Ensign U. S. N.

From Meridian to 4 P. M.
Fair decreasing to cloudy weather. Light breeze from S.W. At 1.00 Flagship made General signal No. 2240. Clear harbor. At 2.00 French gunboat "Aspic" left harbor.
T. Toombs
Ensign U. S. N.

From 4 to 8 P. M.
Cloudy. Light breeze from South. At 6.15 mustered at quarters. Crossed in harbor.
A. T. Dechutes
Ensign U. S. N.

From 8 P. M. to Midnight
Overcast and cloudy with passing showers of rain for two hours. Light breeze decreasing to light airs from South. Crossed in harbor, starboard chain on top.
T. Toombs
Ensign U. S. N.

Examined and found to be correct.

P. V. Wadham Lieut. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ship's Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N.W. by W.	Calm	0			29.68	64	63	40		o.c.	mist	0	S
2				W. by N.	"	0			29.65	64	64	40		"	"	0	"
3				N.W. by W.		0			29.66	64	64	34	0	"	"	0	"
4				N.E. by E.	N.E.	0-1			29.65	64	64	34	1	"	"	0	"
5					"	1			29.68	64	64	34	1	"	"	0	"
6				N.E.	"	1			29.70	64	64	34	1	"	"	0	"
7				N. by E.	North	1			29.70	64	64	41	69	o.c.	"	0	"
8					"	2			29.69	64	64	41	69	"	"	0	"
9				N.E. by N.	"	2			29.66	64	64	40	69	"	"	0	"
10				North	"	2			29.66	64	64	40	69	"	"	0	"
11				N. by W.	"	2			29.66	64	64	41	69	"	"	0	"
Noon.				N.W. by N.	N.N.W.	2			29.64	64	64	40	69	"	"	0	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 200 gallons.

Water _____ during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 8240 "

Coal consumed during the preceding 24 hours, tons ~~1500~~ lbs.

Coal remaining on hand at Noon, 29 " 1240 "

P. M.													
1			N.W. by N.	N.E.	2		29.64	64	64	40	69	o.c. mist	0 S
2				"	2		29.63	64	64	40	0	o.c. "	0 "
3			N. by E.	"	3		29.62	64	64	40	0	o.c. "	0 "
4			N.E.	"	3		29.62	64	64	40	0	" "	0 "
5			"	"	2-3		29.61	64	64	40	0	o.c. "	0 "
6				"	2-3		29.60	64	64	40	0	" "	0 "
7			E. by N.E.	"	3-4		29.60	64	64	40	0	o.c. "	0 "
8				"	3-4		29.60	64	64	40	0	" "	0 "
9			N.E.	"	3		29.61	64	64	40	69	o.c. cumulus	0 "
10			N.N.E.	N.N.E.	3		29.63	64	64	40	69	o.c. "	0 "
11			North		3		29.65	64	64	41	69	" "	0 "
Mid.			N.N.W.	N.N.W.	2-3		29.64	64	64	41	69	o.c. "	0 "

under the command of Commander T. F. Jewell, U. S. Navy,

Sunday June 26th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M.
Calm and overcast. Moored fast, starboard chain on hook.

From 4 to 8 A.M. Lieut C.D. Galloway U.S.N.
Overcast and cloudy first two hours, then rainy. Light breze from North and N.E. Clear hawse.

From 8 A.M. to Meridian Ensign A.T. Lechtenberg U.S.N.
Overcast with heavy rain. Light breze from N.E. Transferred Geo. W. Dunning, Ldsm, with effects to U.S. Naval Hospital. Clear hawse.

From Meridian to 4 P.M. Ensign F.T. Evans U.S.N.
Cloudy with light rains. Light breze from N.E.

From 4 to 8 P.M. Lieut C.D. Galloway U.S.N.
Overcast, and rainy. Light to, gentle breze from N.E. Clear hawse.

From 8 P.M. to Midnight Ensign F.T. Evans U.S.N.
Overcast with light rain. Light breze from N.N.E. Hawse clear.

Lieut C.D. Galloway U.S.N.

Examined and found to be correct.

F.V. Wareham. Lieut U.S.N. Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				N by E	N N E	3			29.62	74	69	68		b.cl.	cumu.	0	S
2				N N E	"	3			29.61	74	69	68		"	"	0	"
3					"	2			29.61	74	69	68		"	"	0	"
4				N E by N	"	2			29.61	74	69	68		"	"	0	"
5				E N E	N E	3			29.61	74	69	68		"	"	0	"
6				N E	"	3			29.64	74	69	68		b.cl.	"	0	"
7					"	3			29.68	74	68	64		"	"	0	"
8				N N E	"	2			29.70	74	68	64		b.cu.	"	0	"
9				N by E	N N E	2			29.70	74	69	68		b.c.	cir.cumu	4	"
10				N E by N	"	2			29.71	74	72	70		"	"	2	"
11				N E	E N E	2			29.73	74	72	68		"	"	3	"
Noon.				East	East	2			29.76	74	72	68		"	cumu	6	"

Course and distance made good since preceding noon by observations, knots. tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water ———— during the preceding 24 hours, "

Water remaining on hand fit for use at Noon, 5210 "

Coal consumed during the preceding 24 hours, tons 40 lbs.

Coal remaining on hand at Noon, 29 " 1311 "

P. M.																	
1				S E	S E	2			29.76	73	72	68		b.cu.	cir.cumu	4	S
2				S "	"	2			29.74	73	72	69		"	"	4	"
3				S by E	"	2			29.75	74	73	69		"	"	4	"
4				South	"	2			29.79	76	73	69		"	"	4	"
5				S W by S	"	2			29.81	75	74	70		"	"	3	"
6						2-3			29.81	76	74	70		b.c.	"	0	"
7				S W	S W	2			29.82	74	72	68		"	cumu	0	"
8				S S W	"	1			29.81	74	73	69		"	"	0	"
9				S by E	S "	2			29.83	74	82	68		"	cumu mod	0	"
10				S by W	"	2			29.83	74	73	69		"	"	0	"
11				West	"	2			29.84	74	73	68		"	"	0	"
Mid.				W by N	"	2			29.84	74	73	70		"	"	0	"
'																	

under the command of Commander T. F. Jewett, U. S. Navy,

Monday June 21st, 1886.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A.M.

Continuous heavy rain. Clouds cumulus. Overcast. Light to gentle breze from N. N. E. No tide apparent.

A. H. Townstone.
Ensign U. S. N.

From 4 to 8 A.M.

Overcast, drizzling first part. clearing latter part. Received on board in Pay Dept for issue to crew 130 lbs each of fresh beef Vegetables and 104 lbs fresh bread.

H. Loomis
Ensign U. S. N.

From 8 A.M. to Meridian

Clearing weather. Mild. Gentle breze from N. E. At 9h. Flagship made signal Pilot 5456 then 5456. Loosed sail to a bowline. Hoisted cross, port on top. Quarterly Board of Survey condemned & ordered to be thrown overboard 4 old canvas (24 lbs) Canvas Boat. Out marks Cutting Packing & of San Francisco. At 9.50 went to Quarters & exercised Lieut A. V. Wadhams U. S. N. was detached & ordered to duty on U. S. S. "Brooklyn". Carpenter at work on foremast in wake of mizzen band.

C. D. Galloway
Lieut U. S. N.

From Meridian to 4 P.M.

Partly clear with cirrus clouds. Hazy. Light breze from S. E. No tide apparent. At 1 o'c Flagship signalled Cease Dry Pennants 204 & then 610. Trice up awnings, unbend sail & spread awnings. Received in Engineers Instruments & in Engineering Dept the Asbestos sheet & 50 bolts & nuts 1/2 x 1 1/4. Lot nut steam & sailing launches. U. S. S. Omaha left the harbor at 3h. At 3.40 Flagship made 396, displaying English colors. At work on foremast in wake of brines & fore rock bands. Clear Lawse.

H. Townstone.
Ensign U. S. N.

From 4 to 8 P.M.

Cloudy & mild. Light breze from S. E. & S. W. Received from Brooklyn 60 Gallons water. At 7 Flagship signalled 3911. Answered. Made preparations for dressing ship rainbow fashion at 8 A.M. June 22d.

C. D. Galloway
Lieut U. S. N.

From 8 P.M. to Midnight.

Overcast with cirro & mock clouds. Rainy appearances. Light breze from South. Clear Lawse.

H. Townstone.
Ensign U. S. N.

Examined and found to be correct.

C. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				West	West	2			29.84	34	70	68		N.C.	cumulus	0	S
2				W. by N.	"	2			29.88	34	70	68		"	"	0	"
3				N.W.	"	2-3			29.88	34	70	68		"	"	0	"
4				W. by W.	"	3			29.84	34	70	68		"	"	0	"
5				S.E. by E.	E. by E.	2			29.86	42	71	68		"	"	0	"
6				"	"	2			29.84	41	70	69		"	"	0	"
7				E. by E.	"	2			29.84	42	70	69		"	"	0	"
8				East	"	2			29.90	43	71	69		N.C.	cirrocumulus	1	"
9				"	"	1			29.91	43	72	70		"	"	4	"
10				E. by N.	E. by N.	1			29.91	44	73	71		"	"	5	"
11				N.N.E.	"	1-2			29.91	45	74	71		"	"	6	"
Noon.				North	"	2			29.91	46	74	71		"	"	6	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 300 gallons.

Water received during the preceding 24 hours, 700 "

Water remaining on hand fit for use at Noon, 11720 "

Coal consumed during the preceding 24 hours, tons 560 lbs.

Coal remaining on hand at Noon, 39 " 2151 "

P. M.																	
1				N. by E.	E.N.E.	2			29.90	46	44	41		N.C.	cirrocumulus	6	S
2				North	"	2			29.90	46	44	41		"	"	6	"
3				E.S.E.	"	2			29.90	46	44	41		"	"	6	"
4				S.W.	"	2			29.89	46	46	42		"	"	5	"
5				N.W.	Calm	0			29.88	46	46	41		"	"	2	"
6				N.N.W.	"	0			29.90	46	45	42		"	"	2	"
7				N.W. by W.	S.S.W.	2			29.90	46	45	41		"	"	3	"
8				S.W. by S.	S.W.	1			29.90	45	44	40		"	"	3	"
9				S.S.W.	"	1			29.91	44	42	40		"	"	4	"
10				South	S.S.W.	2			29.91	43	42	40		"	"	3	"
11				S.W.	"	1			29.91	43	42	40		"	cumulus	1	"
Mid.				"	Calm	0			29.90	43	42	40		N.C.	cirrocumulus	0	"

under the command of Commander T. F. Jewell, U. S. Navy,

Tuesday June 28th, 188-.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and ends A. M.
Overcast. Light to, gentle breeze from West.

W B Hoggatt
Ensign U. S. N.

From 4 to 8 A. M.
Cloudy and warm. Gentle breeze from E. by E. at 1/20 Flagship made made divisional and time signal, special at at 8m dressed ship with Ensign. Flagship in honor of coronation of the Queen of England. Hauled fires, starboard chains on hook.

E. D. Galloway
Lieut U. S. N.

From 8 A. M. to Meridian
Partly clear with circum clouds. Bright & warm. Light airs to breeze from E. by E. to E. N. E. No apparent tide. At 9.30 went to, quarters for inspection after which held company drill. Marines drilled at 9. B. L. R. At 10.40 signaled Int. 4061. Flagship signalled 90. Painting smoke pipe. At work on foremast. At 12 0c H. M. S. Audacious & Leander U. S. Flagship Brooklyn Japanese & Russian Corvettes & Shore battery fired salutes of 21 guns in honor of the day. Gross in hawse.

H. C. Tomkinson
Ensign U. S. N.

From Meridian to 4 P. M.
Partly clear. Warm. Light E. N. E. breeze. Started fires in boilers No. 1 & 3 for condensing at 3 0c. Examined electrical apparatus & dry gun cotton & found them in good condition.

J. Toomey
Ensign U. S. N.

From 4 to 8 P. M.
Partly clear with circum clouds. Calm first part light airs to breeze from E. by S. & S. W. afterwards. By order of Deck Officer placed O. Nolan, O. A. 2 C, under arrest charged with being drunk on duty. H. M. S. Constance came in. Sent an officer to make usual visit of courtesy. Placed J. Welsh O. A. 2 C. in double irons for being drunk on duty and assaulting his superiors in the discharge of. Went to, quarters for muster at 6 30m. Hoisted steam launch clear of water & scrubbed her copper. Got in steam launch. Elbow in hawse. Started distilling at 6 50m.

H. Tompkins
Ensign U. S. N.

From 8 P. M. to Midnight
Generally cloudy. Light airs & breezes from S. by & S. S. W. Calm last hour. Elbow in hawse.

W B Hoggatt
Ensign U. S. N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama.

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				W. by S.	Calm	0			29.88	74	75	72		b.c.	cirrus	0	S
2				East	East	1			29.84	74	74	71		o.c.h.	"	0	"
3				S. E.	"	1			29.86	73	74	71		o.c.	"	0	"
4				"	"	1			29.86	73	73	71		"	"	0	"
5				"	"	1			29.84	73	72	70		"	"	0	"
6				E. by N.	"	1			29.88	73	71	70		"	"	0	"
7				N. N. E.	N. E.	1			29.84	74	71	70		"	cumulus	0	"
8				N. E. by N.	"	1-2			29.84	74	71	70		"	"	0	"
9				East	"	2			29.86	73	72	69		"	"	0	"
10				N. N. E.	"	2			29.86	73	72	69		"	"	0	"
11				N. E.	"	2			29.86	74	72	69		"	"	0	"
Noon.				E. N. E.	"	3			29.84	74	72	69		"	"	0	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon: Latitude by D. R. ° ' "

Longitude by D. R. ° ' "

Latitude by observations of ⊙ ° ' "

Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m. Latitude by ° ' "

Longitude by ° ' "

Position at 8 P. M. Latitude by ° ' "

Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 320 gallons.

Water Distilled during the preceding 24 hours, 950 "

Water remaining on hand fit for use at Noon, 1800 "

Coal consumed during the preceding 24 hours, 1 tons' lbs.

Coal remaining on hand at Noon, 28 " 2/3 1 "

P. M.														
1				E. by N.	N. E.	1			29.84	74	73	340	b.c.	cirrus	2	S
2				S. E. by E.	"	1			29.82	74	73	340	"	"	2	"
3				W. by S.	East	1			29.82	74	73	340	"	"	3	"
4				W. N. W.	"	1			29.82	74	73	340	"	"	4	"
5				West	"	1			29.81	74	74	340	"	"	4	"
6				W. by N.	"	1			29.81	74	73	340	"	"	4	"
7				N. W. by N.	"	1			29.81	74	74	340	"	"	3	"
8				East	"	1			29.79	74	74	341	"	"	3	"
9				"	"	1			29.82	74	74	341	"	"	2	"
10				South	Calm	0			29.83	74	74	340	"	"	3	"
11				S. E.	S. S. E.	1			29.82	74	74	340	"	"	3	"
Mid.				S. S. E.	"	1			29.81	73	74	371	"	"	4	"

under the command of Commander T. F. Jewett, U. S. Navy,

Thursday June 29th, 1865.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.

Overcast & cloudy. Light airs from East. Clear hawse.

A. F. Lechler
Lieut U. S. N.

From 4 to 8 A. M.

Overcast with mist & some stratus clouds. Light airs to brisk from East to N. E. No tide. Rigged out sailing launch. Italian cruiser Rapido came in at 7 A.M. Sent an officer to attend usual ceremonies. Clear hawse. Distilling.

A. C. Commerford
Ensign U. S. N.

From 8 A. M. to Meridian.

Overcast & cloudy. Light breeze from N. E. At 9.30 called to quarters for inspection afterwards exercised 1st & 2d divisions Great Guns, 3d division Torpedos and Powder division Machine Guns. Flagship made General Signal, answering pennant at 9.30. Distilling. Cross in hawse, Starboard chain on top.

W. B. Hoggatt
Ensign U. S. N.

From Meridian to 4 P.M.

Wards & cloudy. Light airs from N. E. & East. Naval Cadet F. A. Lewis reported on board for duty. Cross in hawse. Distilling.

A. F. Lechler
Lieut U. S. N.

From 4 to 8 P.M.

Partly clear. Light airs from East. At 6.15 unmoored and at quarters. Received on Board 4 pkgs 550 lbs sugar & 100 lbs coffee.

W. B. Hoggatt
Ensign U. S. N.

From 8 P.M. to Midnight.

Generally cloudy. Called to light airs from S. S. E. Cleared hawse Starboard chain on top.

A. F. Lechler
Lieut U. S. N.

Examined and found to be correct.

E. D. Galloway
Lieut & Navigator.

LOG of the UNITED STATES Steamer "Essex", 3d Rate,

Moored in the harbor of Yokohama

Hour.	Knots.	Tenths.	Reading of Patent Log.	COURSES STEERED by Standard Compass. Ships Head	WIND. Direction by Standard Compass.	WIND. Force.	Heel.	Leeway.	BAROMETER. Height in inches.	BAROMETER. Ther. att'd.	TEMPERATURE. Air, Dry Bulb.	TEMPERATURE. Air, Wet Bulb.	TEMPERATURE. Water at Surface.	State of the Weather, by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
A. M.																	
1				S.S.W.	S.W.	1			29.81	24	24	24	0	b.c.	cir cumu	4	S
2				N.W.	"	1			29.80	24	24	24	0	"	"	6	"
3				"	West	1			29.79	24	24	24	0	"	"	7	"
4				"	N.W.	0-1			29.78	24	24	0	69	"	"	2	"
5				N.W. by N.	North	1			29.74	24	16	9	68	b.c.	cumulus	0	"
6				N.N.W.	"	1			29.76	24	16	9	68	b.c.	cir cumu	2	"
7				N by W.	"	1			29.76	24	16	9	68	"	cumulus	0	"
8				N.N.E.	"	1			29.76	24	16	9	68	b.c.	"	0	"
9				N.E.	N.E.	2			29.78	24	26	9	68	"	cumu	3	"
10				N.E. by E.	"	2			29.76	24	24	0	69	"	"	3	"
11				E.N.E.	"	2			29.72	24	24	3	70	"	"	4	"
Noon.				E by S.	East	2			29.72	24	24	3	70	"	"	2	"

Course and distance made good since preceding noon by observations, knots tenths.

Position at Noon:
- Latitude by D. R. ° ' "
- Longitude by D. R. ° ' "
- Latitude by observations of ⊙ ° ' "
- Longitude by chronometer from Forenoon Observations of ⊙ ° ' "

Position at 8 a. m.
- Latitude by ° ' "
- Longitude by ° ' "

Position at 8 P. M.
- Latitude by ° ' "
- Longitude by ° ' "

Current during the time, knots tenths per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' "

Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Variation of the Compass by Azimuth ⊙ observed at " ° ' "

Water expended during the preceding 24 hours, 400 gallons.

Water Distilled during the preceding 24 hours, 1600 "

Water remaining on hand fit for use at Noon, 3000 "

Coal consumed during the preceding 24 hours, 1 tons 320 lbs.

Coal remaining on hand at Noon, 27 " 431 "

P. M.																	
1					E.S.E.	S.E.	2			29.72	25	24	24	1	b.c.	cir cumu	6	S
2					E by N.	"	2			29.71	24	24	16	2	"	"	6	"
3					N. by E.	E.S.E.	2			29.70	24	16	16	2	"	"	7	"
4					N.N.E.	"	2			29.70	24	16	15	2	"	"	8	"
5					N. by W.	"	1			29.72	24	16	15	2	"	"	8	"
6					S.W.	S.W.	2			29.73	24	16	15	2	"	"	4	"
7					S.W.	S.S.W.	2			29.76	24	16	24	1	"	"	2	"
8					S.W. by S.	"	2			29.76	24	16	24	0	"	"	2	"
9					S.	S.	1			29.78	24	16	24	1	"	"	4	"
10					South	South	1			29.80	24	24	24	1	"	"	4	"
11					S.S.E.	"	2			29.80	24	24	24	1	"	"	3	"
Mid.					S.S.E.	"	2-3			29.76	24	24	24	1	"	cumulus	2	"

under the command of Commander T. F. Jewett, U. S. Navy,

Thursday June 30th, 1887.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and Until 4 A. M.
Fair to clear weather. Light airs from S.W. & W.S.W. Moored in 1/4 cable, Starboard chain on hook. Distilling.
J. F. Toomis
Ensign U. S. N.

From 4 to 8 A. M.
Overcast and foggy. Light airs from North. Received in Paymasters Dept 10 lbs tea. At 7:30 Flagship made signal 11 & 11 Squadron pennant 4. Moored in hawse, Starboard chain on hook. Distilling.
E. W. Bullock
Ensign U. S. N.

From 8 A. M. to Meridian
Generally cloudy. Light breeze from N.E. & East. At 9:30 inspected at quarters. Exercised Hardin at Rifles, Powell in at Stations 1st in Rifles, 2d in Machine Guns, 3d in Single Sticks. Cleared hawse to a cross, Starboard chain on hook & hove in to 1/4 fathoms on port chain. A Japanese Squadron of three vessels one flying a Rear Admirals flag came in and anchored. Sent an officer to make the usual visit.
A. T. Leighton
Lieut U. S. N.

From Meridian to 4 P. M.
Clear warm and pleasant weather. Light breeze from S.W. & S. At 12:10 stopped, condensing and hauled fires in boilers Nos 1 & 3. Moored in hawse, Starboard chain on hook.
J. F. Toomis
Ensign U. S. N.

From 4 to 8 P. M.
Generally cloudy. Light breeze from S.W. & S.S.W. at 6:15 Inspected at quarters.
A. T. Leighton
Lieut U. S. N.

From 8 P. M. to Midnight
Cloudy. Light airs to light breeze from S. Clear hawse.
J. F. Toomis
Ensign U. S. N.

Examined and found to be correct.

E. D. Galloway Lieut & N
Navigator.